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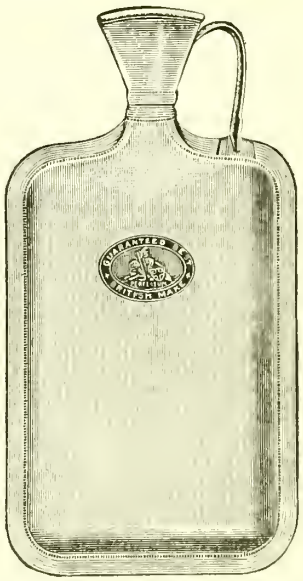

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Christy, Thos., & Co.
Erasmic Co., Ltd.
Lescol Perfumery Co.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Sangers'
Schutze, F., & Co., Ltd.
Vinolia Co., Ltd.

Eau de Cologne (solid)
Demuth's Laboratories

Educational Institutions
Bath & West of England College
Birmingham & Midland Coll.
British Optical Institute
City of London College
College of Preceptors
Dawes, A. H.
Durham University
Edinburgh Central School of Pharmacy
Elt's College
Fairchild Scholarship
Glasgow School of Pharmacy
Leeds Technical School
Liverpool School of Pharmacy
London College of Pharmacy
Manchester College
North of England School
Northern College of Pharmacy
School of Pharmacy
South-Western Polytechnic
South of England College
West Ham Tech. Institute
West minster College

Effervescent Preparations
Allen & Hanburys, Ltd.
EvansSons Lescher & Webb, Ld.
Goodall, Backhouse & Co.

Elastic Gum Insts.
Mason Bros. & Chapman

Elastic Hosiery
Ayrton, Saunders & Co., Ltd.
Bailey, W. H., & Son
Burge, Warren & Ridgley, Ld.
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Wood, Vincent

Electrical Novelties
Ward & Goldstone
Wright, Archd. J., Ltd.

Emery and Cloth
Oakey, J., & Sons, Ltd.

Emetine Salts
Carnegie Bros.
Macfarlan, J. F., & Co.
Whiffen & Sons, Ltd

Emulsifiers
Bonnett, Sons & Shears, Ltd.
Roberts' Patent Filling Machine Co.
Wilkinson, S. W., & Co.

Emulsions, C.L.O., &c.
Ayrton, Saunders & Co., Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
Browning, Wm., & Co.
Cupal, Ltd.
Fanlding, F. H., & Co.
Parke, Davis & Co.
Scott & Bowne, Ltd.
Stevenson, H. E., & Co.
Wyleys, Ltd.

Enamelled Hospital Requisites
Ormo, Evans & Co., Ltd.

Endolytic Tubes
Fletcher, Fletcher & Co. Ltd

Enemas
Burge, Warren & Ridgley, Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Warne, W., & Co., Ltd

Epsom Salts
Blythe, Wm., & Co., Ltd.
Howards & Sons, Ltd.
May & Baker, Ltd

Essences, Sol. and Fruit
Alliance Drug & Chem.
Barnett & Foster
Boake Roberts & Co., Ltd.
Bush, W. J., & Co., Ltd.
Fuerst Bros.
Hay, Wm., Ltd.
London Essence Co.
Polak & Schwarz
Stevenson & Howell, Ltd

Ethers
Baiss Bros. & Stevenson, Ltd.
Duncan, Flockhart & Co.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons

Eucalyptus Oil
British Drug Houses, Ltd., The
Stevenson, H. E., & Co.
Tasmanian Eucalyptus Oil Co.

Evaporators
Forshaw, E., & Son, Ltd.

Extract of Herbs
Newball & Mason
Potter & Clarke, Ltd.

Extracts (Medicinal)
Allen, Stafford, & Sons, Ltd.
Burroughs Wellcome & Co.
EvansSons Lescher & Webb, Ld.
Gathergood's Exor.
Hewlett, C. J., & Son, Ltd.
Parke, Davis & Co.
Ransom, W. & Son, Ltd.

Factory, &c., Sites
Great Western Railway

Feeding Bottles
Bush, H. W., & Co., Ltd.
Maw, S., Son & Sons
Schutze, F., & Co., Ltd.

Filling Machines
Forgrove Machinery Co., Ltd.
Jackson, J. G., Ltd.
Roberts' Pat. Filling Mach Co.

Filter Papers
Ford, T. B., Ltd.

Filters
British Pasteur-Chamberland Filter Co.
Fulham Pottery & Cheavin Filter Co., Ltd.

Flycatchers
Alabastine Co. (British) Ltd.
Barraclough, J., & Co.
Ford, Shapland & Co.
Kay Bros., Ltd.
Smith, Jno. H., & Co.
Strong, Christy

Foods, Invalid, &c.
Allen & Hanburys, Ltd.
Bell (John), Hills & Lucas, Ltd.
Benger's Food, Ltd.
Brand & Co., Ltd.
British Casein Co. (1911), Ltd.
British Milk Products Co., Ld
Deans, Logan & Co., Ltd.
Fairchild Bros. & Foster
Frame Food Co.
Harker, Stagg & Morgan, Ltd
Horlick's Malted Milk Co.
Lorimer, John
Lofthouse & Saltmer, Ltd.
Natural Food Co., Ltd.
Plasmon, Ltd.
Reade Bros. & Co., Ltd.
Sanervo Co
Sister Lauras Infant Food Co.
Southall Bros. & Barclay, Ltd
Wander, A., Ltd.
Willows, Francis, B. & T., Ltd.
Woolley, Jas., Sons & Co., Ltd.
Wulfing, A., & Co.

Foot Appliances
Scholl Mnfg. Co., Ltd.

Fruit Drink
McGlashan, D.

Fuller's Earth
Mumford, G. S., & Sons

Fumigators
Sanitas Co., Ltd.

Gallic Acid
Mallinckrodt Chem. Works

Gauzes
Bailey, R., & Son
Carnegie Bros.

Glassware, Chemical
Lang, Jules, & Son

Glycerin
Fuerst Bros.
Price's Patent Candle Co., Ltd.

Glycerophosphates
Monsanto Chemical Works
Reitmeyer Calburn & Kindersley, Ltd.

Grease Paints
Hovenden, R. & Sons Ltd.
Osborne, Garrett & Co.
Quelch, Henry C., & Co.
Thomas, H., & Co

Grinders, Drug, &c.
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis, B. & T., Ltd.

Gripe Water
Woodward, W., Ltd.

Gums
Fink, F., & Co.
Kidston, W. M., & Co.
Lambert, Saml., & Co.

Hair Dyes
Harker, C.R., Stagg & Morgan
Blackie, Robert

Hair Preparations
Alexandre, L.
Anzora Perfumery Co.
Blackie, Robert
Edwards' "Harlene" Co.
Sangers
Tokalon Ltd.

Hand Carts, Trucks, &c.
Crewe & Co.

Hat Cleaners
Cox, Arthur H., & Co., Ltd.
Milner's Chemical Co.
Senier, Allt., & Co.

Hat Dyes
Whitaker & Co.

Herbs
Potter & Clarke, Ltd.
Salle, H., & Co.

Hexamethylentetramine
Reitmeyer Calburn & Kindersley, Ltd.

Homœopathic Medicines
Ashton & Parsons, Ltd.
Keene & Ashwell, Ltd.
Leath & Ross

Horse Remedies
Harvey & Co. (Dublin), Ltd.

Hot Air Douches
Ward & Goldstone

Hot Water Bottles
Bailey, W. H., & Son
Berton, Arthur, Ltd.
Burge, Warren & Ridgley, Ltd.
Galen Manfg. Co., Ltd.
Goodrich, B. F., Co.
Ingram, J. G., & Son
Maw, S., Son & Sons
Schutze, F., & Co., Ltd.
Toogood, William, Ltd.
Warne, Wm., & Co., Ltd.
Wood, Vincent

Hot Water Bottle Stoppers
Rowe, T. Wilfrid

Hotels
Kingsley Hotel
Thackeray Hotel

Hydrogen Peroxide
Laporte, B., Ltd.
May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer, T., & Co. Ltd.

Hypophosphites
May & Baker, Ltd
Tyrer, T., & Co., Ltd.

Ink, Dichroic
Bowley & Draper, Ltd.

Insecticides
Christy, T., & Co.
Cook, E., & Co., Ltd.
Hand, C., & Co.

Insect Powder
Keating, Thoma
Potter & Clarke, Ltd.
Ralmes & Co.

Insurance
War Risks Insurance Office

Iodides
Tyrer, T., & Co., Ltd.

Junket Powder
Armour & Co., Ltd.

Lanolines
Christy, T., & Co.
Corbyn, Stacey & Co., Ltd
Hillcrest Oil Co., Ltd.
Howard Lloyd & Co., Ltd.

Lard
Ewen, J., & Sons

Lavender Oil
Allen, Stafford, & Sons, Ltd.
Guillevic, E., & Co.
Ransom, W., & Son Ltd.

Lavender Water
Bush, W. J., & Co., Ltd.

Lime Juice and Cordial
EvansSons Lescher & Webb, Ld
Idris & Co., Ltd.

Linseed, Crushed
Mumford, G. S., & Sons

Lints
Liverpool Lint Co.
Maw, S., Son & Sons
Robinson & Sons, Ltd.
Vernon & Co., Ltd.

Liquorice Juice
Boehm, F., Ltd.
Fuerst Bros.
Jackson, Ernest, & Co.
Linton, Hubbard & Andrew
Solazzi

Liquors, Conc.
Fletcher, Fletcher & Co.

Lithia Salts
British Drug Houses, Ld., The
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.

Loofah Socks
Davis, J. M., & Sons

Loofahs
Hall Forster & Co., Ltd
Internl. Sponge Importers, Ld
Solport Bros.
Swales, Thos.

Lozenges
Crosse & Blackwell
Denoual, Jules, & Co.
Guest, Thos., & Co.
Jackson, Ernest, & Co.
Potter & Clarke, Ltd.
Raimes & Co.
Warrick Bros., Ltd.

Lysols
Aerators, Ltd.
Burt, Boulton & Haywood, Ld
Eucryl Ltd.
EvansSons Lescher & Webb, Ld
Lorimer, John
Zimmermann, C. & Co (Chemicals), Ltd.

Machinery, Pharmacal
Allen & Hanburys, Ltd.
Bennett, Sons & Shears, Ltd.
Blair, Campbell & McLean, Ld.
Forgrove Machinery Co., Ltd.
Gardner, Wm., & Sons, Ltd.
Griffin, John J., & Sons, Ltd.
Jackson, J. G., Ltd.
Pindar, J. W., & Co.
Stokes, F. J., Machine Co.
Thompson & Capper, Ltd.
Wilkinson, S. W., & Co.

Magnesia and Preps.
Henry, T. & W.
Howards & Sons, Ltd.
International Chem. Co., Ld.
Phillips, Chas. H., Chem. Co.
Washington Chemical Co., Ld.

Malt Extract and Preps.
Allen & Hanburys, Ltd.
Blackie, Robert
British Drug Houses, Ld., The
Burroughs Wellcome & Co.
Calder, James, & Co., Ltd.
Corbyn, Stacey & Co., Ltd.
Davies, Sons & Co.
EvansSons Lescher & Webb, Ld
Fletcher, Fletcher & Co., Ltd.
May, Roberts & Co., Ltd
Oppenheimer, Son & Co., Ltd.
Paine & Co., Ltd.
Pascall, James, Ltd.
Wander, A., Ltd.
Wyleys, Ltd.

Marking Ink
John Bond ('Crystal Palace')

Measures, Graduated
Bush, H. W., & Co., Ltd.

Meat Extracts
Armour & Co., Ltd.
Brand & Co., Ltd.
Tooth's Extract of Meat Co.

Medical Coils
Ward & Goldstone

Mercurials
Alliance Drug & Chemical Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

Methylated Spirit
Burrough, J., Ltd.
Preston's Liverpool Distillery
Randall & Son, Ltd. [Co., Ld.
Riddell & Smith
Thornley, Samuel, Ltd.

Mineral Waters
Apollinaris & Johannis, Ltd.
Camwal, Ltd.
Idris & Co., Ltd.
Ingram & Royle, Ltd.
Norske Mineralkilder

Mixers and Sifters
Gardner, Wm. & Sons (Glos.) Ld
Stokes, F. J., Machine Co.

Naphthalene
Burt, Boulton & Haywood, Ld

Night Lights
Price's Patent Candle Co., Ld.

Oils, Essential
Allen, Stafford, & Sons, Ltd.
Alliance Drug & Chemical Co.
Arthur & Co
Boake Roberts & Co., Ltd.
Boehm, F., Ltd.
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
EvansSons Lescher & Webb, Ld
Guillevic, E., & Co.
Lambert, Saml., & Co.
Lane-Hall, R., & Co.
London Essence Co.
Magnus, Mabee & Reynard Inc.
Naef, M., & Co.
Polak & Schwarz
Poppelreuter W.
Ransom, W., & Son, Ltd.
Stevenson & Howell, Ltd.
Verona Chemical Co.
Wiener, R. O., & Co.
Wright, Layman & Umney, Ld.
Zimmermann, C., & Co., Ltd.

Oils, Mineral, Fatty, &c.
Allen, Stafford, & Sons, Ltd.
Boehm, F., Ltd.
Hertz & Co.
Price's Patent Candle Co. Ld.
Stern Sonneborn Oil Co., Ltd.

Ointments
Blackie, Robert | Burgess, E.
Mentholatum Co.
Oldfield, Pattinson & Co.
Peat Products (Sphagnol) Ltd.

Olive Oil
Farris, Charles
Ferrer, J., & Co.
Guillevic, E., & Co.

Opium Preparations
Ferris & Co., Ltd.
Oldfield, Pattinson & Co.

Optical Goods
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Gunther Optical Co., Ltd.
Standard Optical Co., Ltd.

Optical Tuition
British Optical Institute
College of Optics
Spectacle Makers Company

Orange and Quinine Wine
Hobson, Joseph, & Son
Idris & Co., Ltd.
Millar, A., & Co., Ltd.
Robinson, B., & Co., Ltd.

Organic Solvents
Hopkin & Williams, Ltd.

Organo-Therapeutic Preps.
Armour & Co., Ltd.
British Organotherapy Co., Ld
Digestive Ferments Co.
Duncan, Flockhart & Co.

Otto Rose
Guillevic, E., & Co.
Shipkoff & Co.
Zimmermann, C., & Co., Ltd.

Otto Rose (Synth.)
Bush, W. J., & Co., Ltd.
Guillevic, E., & Co.
Kerfoot, Thos., & Co.
Polak & Schwarz
Stevenson & Howell, Ltd
Stevenson, H. E., & Co.
Warrick Bros., Ltd.
Wright, Layman & Umney, Ld.

Oxygen Baths
Wright & Co.

Packed Goods
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
British Drug Houses, Ltd., The
Corbyn, Stacey & Co., Ltd.,
Cox, Arthur H., & Co., Ltd.
Christy, Thos., & Co.
Cupal, Ltd.
Davies, Sons, & Co.
EvansSons Lescher & Webb, Ld
Goodall, Backhouse & Co.
Harker, C. R., Stagg & Morgan
Lofthouse & Saltmer, Ltd.
May, Roberts & Co., Ltd.
Oldfield, Pattinson & Co
Potter & Clarke, Ltd.
Sangers | Shirley Bros., Ltd.
Southall Bros. & Barclay, Ltd
Standard Tablet & Pill Co., Ld.
Toogood, W., Ltd.

Palatinoids
Oppenheimer, Son & Co., Ltd.

Paper Handkerchiefs
Toinoco Handkerchief Co., Ld

Paraffinum Liquidum
British Danosoff White Oil Co., Ltd.
Browning, Wm., & Co.
Chesebrough Mnfg. Co.
Farris, Charles
Stern Sonneborn Oil Co. Ltd.
Wiener, R. O., & Co.

Pastilles
Allen & Hanburys, Ltd.
Burroughs Wellcome & Co.
Demuth's Laboratories
Evans Sons, Lescher & Webb
Guest, Thos., & Co.
Kerfoot, Thomas, & Co.
Wander, A., Ltd.
Warrick Bros., Ltd.

Patent Agents
Barker, R. W.
Raworth, John E.

Peppermint Oil
Allen, Stafford, & Sons Ltd.
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Ransom, W., & Son, Ltd.
Rudd, F. M.
Stevenson & Howell, Ltd.

Pepsine
Digestive Ferments Co.

Peptone
Armour & Co., Ltd.
Digestive Ferments Co.
Fairchild Bros. & Foster

Perfume Materials
Bush, W. J., & Co., Ltd.
Guillevic, E., & Co.
Kerfoot, T., & Co.
Lane-Hall, R., & Co.
Naef, M., & Co., Succrs.
Polak & Schwarz
Salle, H., & Co.
Stevenson & Howell, Ltd.
Wright, Layman & Umney, Ld.
Zimmermann, C., & Co., Ltd.

Perfumes
Allen & Hanburys, Ltd.
Baiss Bros & Stevenson, Ltd.
British Drug Houses, Ld., The
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, T., & Co.
Demuth's Laboratories
Erasmic Co., Ltd.
EvansSons Lescher & Webb, Ld
Lescol Perfumery Co.
Lorimer, John
Piver, L. T., & Cie
Potter & Clarke, Ltd.
Price's Co., Ltd.
Queich, H. C., & Co. | Rigaud
Shirley Bros., Ltd.
Southall Bros. & Barclay, Ld.
Tozana Perfumery Co.
Vinolia Co., Ltd.
Warrick Bros., Ltd.
West, T., & Son

Perles
Tye, John, & Son

Pessaries (Soluble)
Burge, Warren & Ridgley, Ld
Rendell, W. J.

Petroleum Jelly
Chesebrough Manfg. Co.
Kidston, W. M., & Co.
Meade-King, Robinson & Co.
Stern Sonneborn Oil Co., Ltd
Wiener, R. O., & Co.

Phenacetin
Greeff, R. W., & Co.
Monsanto Chemical Works
Reitmeyer Calburn & Kindersley, Ltd.

Phosphorus and Preps.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

Photo. Chemicals
Greeff, R. W., & Co.
Lane-Hall, R., & Co.
Reitmeyer Calburn & Kindersley, Ltd.

Photo. Goods
Ayrton, Saunders & Co., Ltd
Burroughs Wellcome & Co.
Butcher, W., & Sons, Ltd.
EvansSons Lescher & Webb,
Kent, G. B., & Sons, Ltd.
Lennon, Ltd.
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Rajar, Ltd.
Sangers
Wyleys, Ltd.

Photo. Postcards
Rajar, Ltd.

Pill Makers
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Howard Lloyd & Co., Ltd
Kirby, H. & T., & Co., Ltd.
McKesson & Robbins
Standard Tablet & Pill Co.,
Wand Manufacturing Co.

Plasters
Dalmas, A. de St., & Co.
Galen Manufctg. Co., Ltd

Plate Powder
Oxyron Co.

Pleated Paper
Darter, Wilkinson & Co.

Pocket Lamps Electric
Ward & Goldstone

Pocket Spittin Flasks
Beatson, Clark & Co., Ltd

Polishes (Vario
Bradley & Bonrdas
Holiday & Co.
Oakey, J., & Sons, Ltd.

Postal Boxes
Globe Box Co.
Robinson & Sons Ltd.

Powder Pape
Papier Poudré Ltd.

Printers
Cartwright & Rattray, L
Ford, Shapland & Co.
Suttley & Silverlock, Ltd
Townsend, J., & Sons
Waide, T., & Sons
Wilkinson, James F.

Puffs
Schutze, F., & Co., Ltd.
Solport Bros.

Pyrogallic Ac
Greeff, R. W., & Co.

Quinine and S
Alliance Drug & Chem.
Bandoeng Quinine Fac
Corbyn, Stacey & Co., L
Greeff, R. W., & Co.
Howards & Sons, Ltd
Reitmeyer Calburn & K
dersley, Ltd

Radio-activ Minerals
Harrington Bros., Ltd.

Radium Compounds
Glew, F. H.

Razors
Hovenden, R., & Sons,
Kelland, W. P.
Maw, S., Son & Sons

Reagents
Hopkin & Williams, Ld

Resins, Resin
Allen, Stafford, & Sons,
Macfarlan, J. F., & Co.
Ransom, W., & Son, Lt
Smith, T. & H., Ltd.

Respirator
Brown, J. M., & Co.
Solport Bros., Ltd.
Zimmer & Co.

Rubber Goo
Altrincham Rubber C
Berton, Arthur, Ltd.
Burgs, Warren & Ridg
Haywood, J. H., Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Tompkins, J., Ltd.
Warne, W., & Co., Ltd

Rubber Stamps
lehford C. D.

Saccharin
accharin Corporation, Ltd.

Salicylic Acid and Salicylates
ush, W. J., & Co., Ltd.

Sanitary Towels
onthall Bros. & Barclay, Ltd.

Santonine
oldberg, I. L.

Saponin
ield, C. W., Ltd.

Scammony Resin
arnegie Bros.

Scientific Apparatus
rkson, Son & Co., Ltd.
illisher, J.
ynolds & Branson, Ltd.

Sea Salt
dman & Son, Ltd.

Seed Dressing
awker, Arthur E.
mlinson & Hayward, Ltd.

Seeds
itter & Clarke, Ltd.

Serums and Antitoxins
llen & Hanburys, Ltd.
urroughs Wellcome & Co., Ltd.
ristry, T., & Co.
ansSons Lescher & Wehb, Ld
rke, Davis & Co.
illdox, Jeseau & Co.

Shampoo Powders
andard Tablet & Pill Co. Ld.

Shares
Adam & Tuckniss

Sheep Dips
rt, Bonlton & Haywood Ld.
wker, Arthur E.
andardised Disinfectants
o., Ltd.
mlinson & Hayward, Ltd.

Shop Fittings
rton-Graham, Ltd.
k, George
ansSons Lescher & Wehb, Ld.
ant, D.
skins, S., & Bros., Ltd.
ephs, Philip, & Sons, Ltd.
w, S., Son & Sons
lls, H.
nall & Sons
ddeck & Co.
gers

Shoulder Straps
od, Vincent

Soap Plant
shaw, E., & Son, Ltd.

Soaps, Toilet, &c.
Allen & Hanburys, Ltd.
Bell (John), Hills & Lucas, Ld.
Bronnley, H., & Co., Ltd.
Chesebrough Manfg. Co.
Christy, Thos., & Co.
Cook, E., & Co., Ltd.
Erasmic Co., Ltd.
Eucryl, Ltd.
EvansSons Lescher & Wehb, Ld
Ewen, James, & Sons
Faulding, F. H., & Co.
Field, J. C. & J., Ltd.
Hovenden, R., & Sons, Ltd.
Lescol Perfumery Co.
Pears, A. & F., Ltd.
Peat Products (Sphagnol) Ltd.
Price's Patent Candle Co., Ld.
Resinol Chemical Co.
Spratt's Patent, Ltd.
Vinolia Co., Ltd.
Wright, Layman & Umney, Ld

Sodium Bicarbonate
Brnnner, Mond & Co., Ltd.
Howards & Sons, Ltd.

Soothers
Schutze, F., & Co., Ltd.

Spectacles
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Gunther Optical Co., Ltd.

Spermaceti
Farris, Charles
Price's Patent Candle Co., Ld.

Spices (Ground)
Allen, Stafford, & Sons. Ltd.
Goodall, Backhouse & Co.

Spirit of Wine
Burrough, J., Ltd.
Calder, James, & Co., Ltd.
Preston's Liverpool Distillery Co., Ltd.

Sponges
Internl. Sponge Importers, Ld

Sprays
Burge, Warren & Ridgley, Ltd.
Christy, Thos., & Co.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
Parke, Davis & Co.
Sangers | Toogood, Wm., Ltd.

Sprinkler Corks
Betts & Co., Ltd.

Spruce Beer
Hobson, Joseph, & Son

Starch
Mumford, G. S., & Sons

Stills
Bennett, Sons & Shears, Ltd.
Forshaw, E., & Son, Ltd.
Stokes, F. J., Machine Co.

Stoppers
Rowe, T. Wilfrid
Stipendum Stopper Co.

Surgical Appliances & Dressings
Allen & Hanburys, Ltd.
Bailey, R., & Son
Baiss Bros. & Stevenson, Ltd
Berton, Arthur, Ltd.
Burgoyne, Burbidges & Co.
Burroughs Wellcome & Co.
Bush, Henry W., & Co., Ltd.
Carnegie Bros.
Christy, Thos., & Co.
Cuxson, Gerrard & Co., Ltd.
Dalmas, A. de St., & Co.
Galen Manfg. Co., Ltd.
Gimber, W., & Son
Haynes, G., & Co.
Liverpool Lint Co.
Macfarlan, J. F., & Co.
Mason Bros. & Chapman
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Robinson & Sons, Ltd.
Seabury & Johnson
Southall Bros. & Barclay, Ltd.
Van Horn & Sawtell
Vernon & Co., Ltd.
Vernon, Will, & Sons
Warne, W., & Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co., Ltd.

Suspensories
Bailey, W. H., & Sons

Synthetic Prods.
Naef, M., & Co.
Stevenson & Howell, Ltd

Syphons
Barnett & Foster
Camwal, Ltd.
Idris & Co., Ltd.
Pure Aeration Supply, Ltd.
Williams, E., and Co.

Syringes
Bresillon, M., & Co.
Bush, H. W., & Co., Ltd.
Lang, Jules, & Co.

Syrups, Medicinal
Anglo-American Pharmaceutical Co., Ltd.
Fellows' Med. Mnfg. Co.

Table Waters
Burrow, W. & J.

Tablet Machinery
Allen & Hanburys, Ltd.
Bennett, Sons & Shears, Ltd.
Griffin, John J., & Sons, Ltd.
Thompson & Capper, Ltd.
Wilkinson, S. W., & Co.

Tablets, Compressed
Allen & Hanburys, Ltd.
British Drug Houses, Ld., The
Burgoyne, Burbidges & Co.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Duncan, Flockhart & Co.
EvansSons Lescher & Wehb, Ld
Guest, Thos., & Co.
Howards & Sons, Ltd.
Jackson, Ernest, & Co.
Kilby, H. & T., & Co., Ltd.
Parke, Davis & Co.
Scheller, Emil, & Co.
Shirley Bros., Ltd.
Southall Bros & Barclay, Ltd.
Standard Tablet & Pill Co., Ld.
Thompson & Capper, Ltd.
Wand Manfg. Co.
Wigglesworth & Co.

"Tabloid" Products
Burroughs Wellcome & Co.

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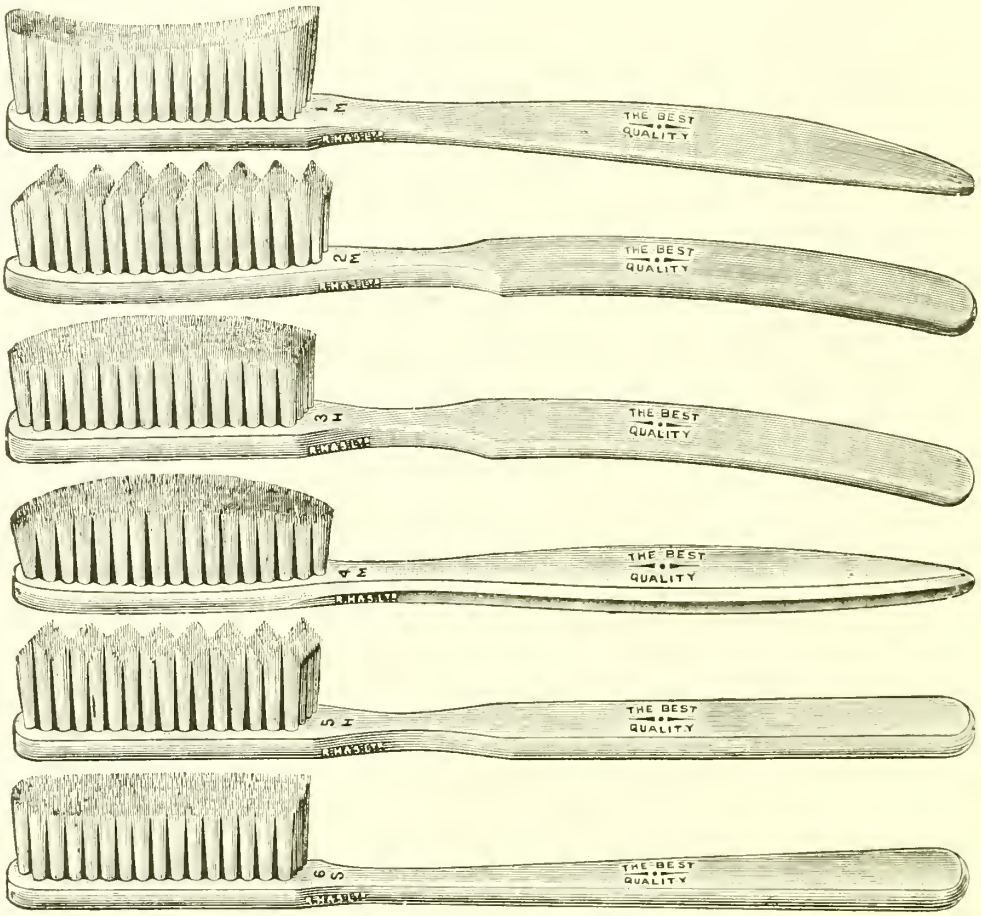

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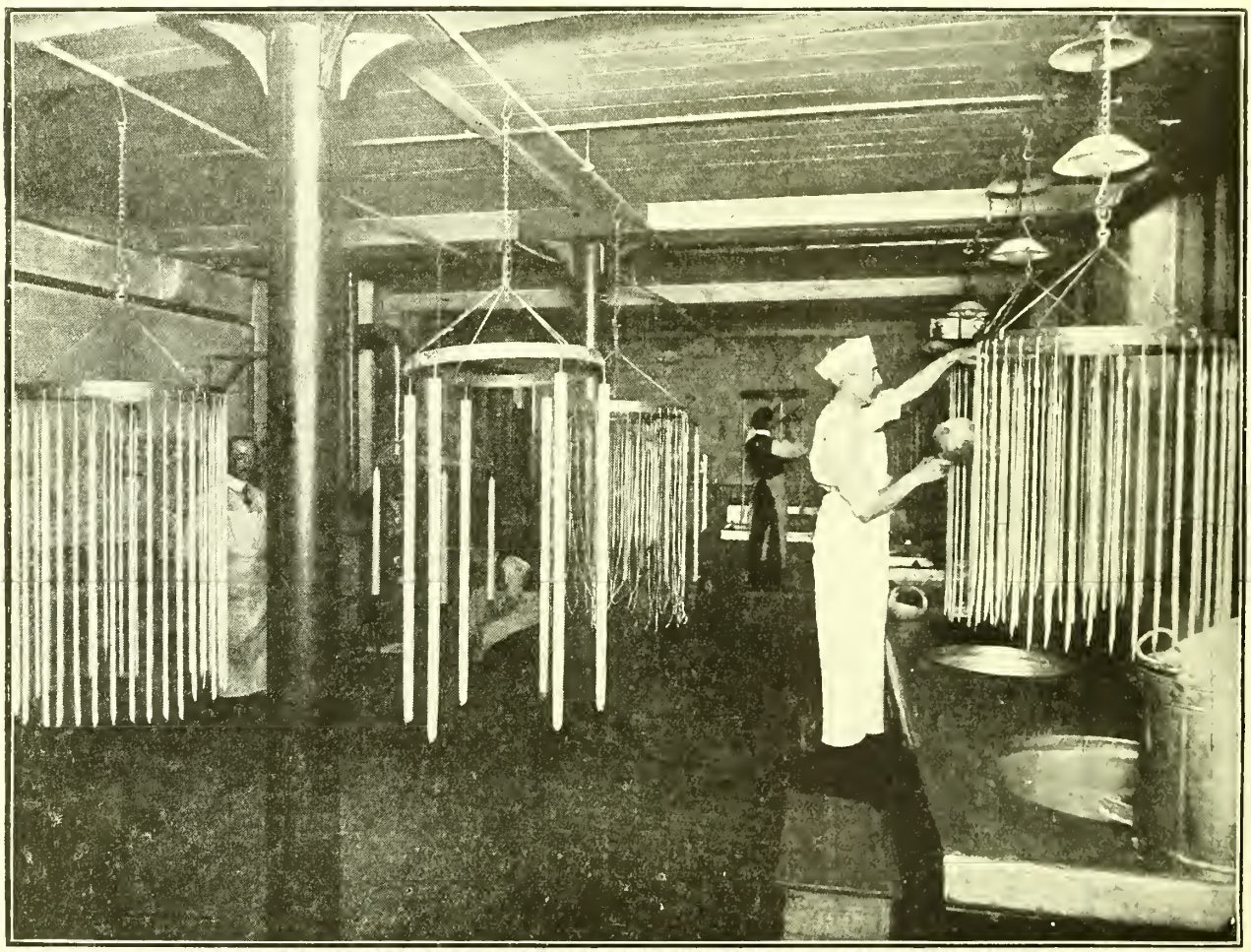

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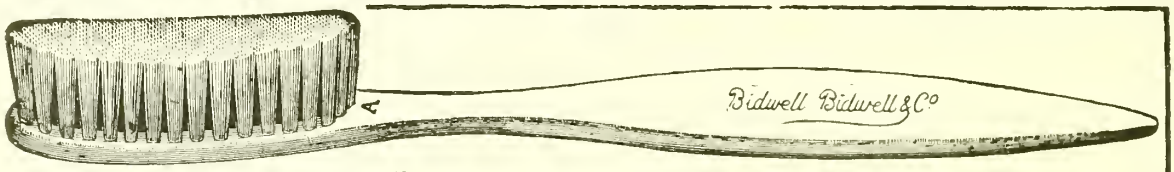

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LECTURERS—WINTER SESSION, 1915-1916.

Anatomy—Professor Howden, M.A., M.B., D.Sc., F.R.S.E.
Physiology—Professor J. A. Menzies, M.D.
Chemistry—Professor Bedson, M.A., D.Sc.
Medicine—Professors Sir G. H. Philipson, M.A., M.D., D.C.L., LL.D., F.R.C.P., David Drummond, M.A., M.D., D.C.L., and Sir Thomas Oliver, M.A., M.D., LL.D., F.R.C.P.
Surgery—Professors J. Rutherford Morison, M.D., F.R.C.S., and H. Brunton Angus, M.B., M.S., F.R.C.S. *Lecturer*: Mr. G. Grey Turner, M.B., M.S., F.R.C.S.
Midwifery—Professor R. P. Ranken Lyle, M.A., M.D.
Hygiene—Professor T. Eustace Hill, M.B., B.Sc.
Pathology—Professor Stuart McDonald, M.D., C.M., F.R.C.P.E.
Physics—Professor Henry Stroud, M.A., D.Sc.
Comparative Pathology and Bacteriology—Professor H. J. Hutchens, D.S.O., M.A., M.R.C.S., L.R.C.P., D.P.H.
Biology—Professors Potter, M.A., Sc.D., and Alex. Meek, M.Sc., F.Z.S.
Lecturer on Applied Anatomy—John Clay, M.B., B.S., F.R.C.S.
Lecturer on Comparative Pathology and Bacteriology.—Percy C. W. Laws, M.A., L.S.A., L.M.S.S.A.
Lecturer on Diseases of Throat, Nose, and Ear—S. S. Whillis, M.D., B.S.
Lecturer on Diseases of Skin—R. A. Bolam, M.D., M.R.C.P.
Lecturer on Diseases of Children—C. W. Ogden, M.D.
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Assistant Demonstrator of Bacteriology—George Hall, M.D., B.Sc., M.R.C.P.
Demonstrator of Physiology—(Vacant).
Lecturer on Pathology—W. T. Sewell, M.D., B.S., D.P.H.
Demonstrators of Pathology—William E. Hume, M.A., M.B., M.R.C.P., and R. J. Willan, M.B., F.R.C.S.

SUMMER SESSION, 1916.

Medical Jurisprudence—Professor R. A. Bolam, M.D., M.R.C.P.
Materia Medica—Professor William E. Hume, M.A., M.B., M.R.C.P.
Operative Surgery—Professors J. Rutherford Morison, M.D., F.R.C.S., and H. Brunton Angus, M.B., M.S., F.R.C.S., and Mr. G. Grey Turner, M.B., M.S., F.R.C.S.
Ophthalmology—Professor J. D. Wardale, M.B., B.S.
Therapeutics—Professor Thomas Beattie, M.D., M.R.C.P.
Practical Chemistry—Professor Bedson, M.A., D.Sc.
Practical Histology—Prof. J. A. Menzies.
Psychology—Professor T. W. McDowall, M.A., M.D.
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Skin Department—Dr. R. A. Bolam.
Gynæcologist—Dr. R. P. Ranken Lyle.
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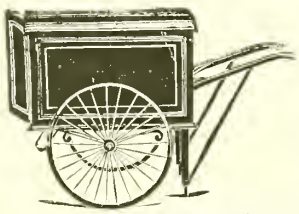

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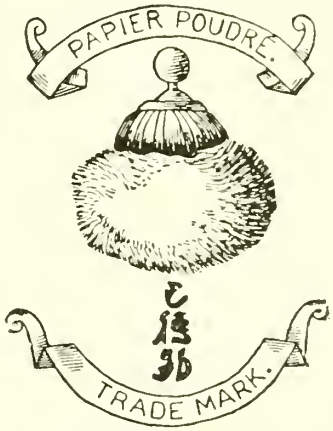

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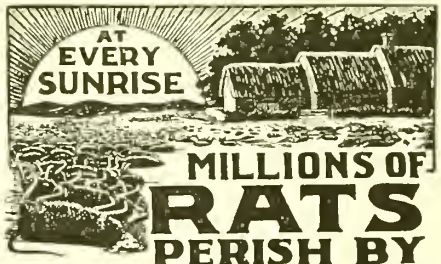

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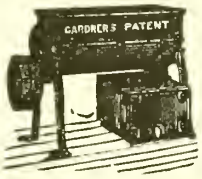

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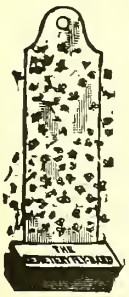

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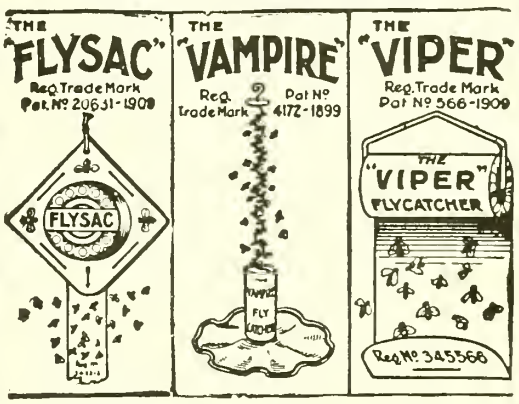

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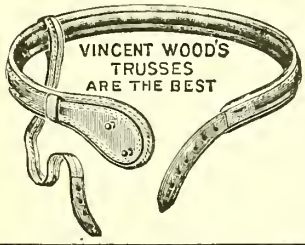

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Several injunctions in the High Court of Justice having already been obtained (reports of which have appeared in "THE CHEMIST AND DRUGGIST"), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of W. J. RENDELL," "RENDELL," or any colourable imitation thereof in connection with Pessaries NOT manufactured by

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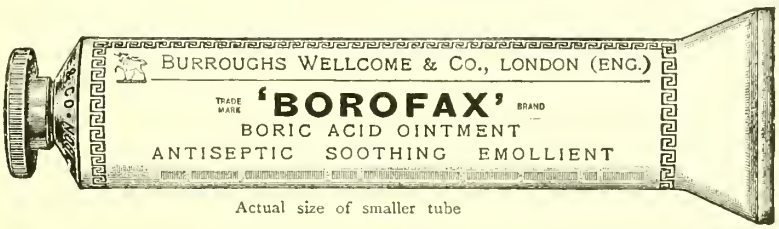

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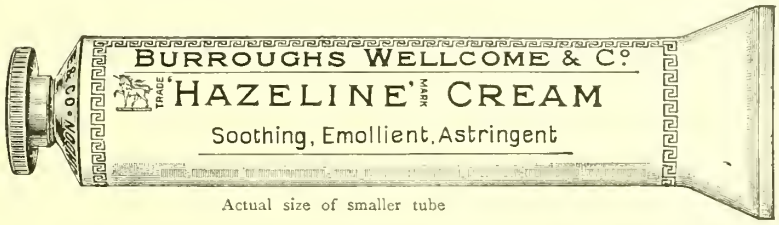

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THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, AUGUST 21, 1915

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion

REMITTANCES MUST ACCOMPANY INSTRUCTIONS.

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED the MONEY is TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. **Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London."** (Three words counted as two.)

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3.—MIDDLESEX (Few Miles Out).—Retail and Dispensing Business, good middle class; returns under management about £650; *net profit* £200; every investigation courted; price £475.

4.—LONDON, N.W.—Modern Pharmacy; rapidly increasing; returns, present rate, £1,500 per annum; attractive shop and good stock; all open to inspection; valuation and small premium only required.

5.—LONDON, S.W.—Old-established Business, Retail and Dispensing; held by vendor upwards of 25 years; returns £1,500; *net profit* £400; attractive shop, well fitted and stocked; price about £1,000.

6.—YORKS.—Good middle-class Business, chiefly ready money; returns about £600; *net profit* £220; well-fitted shop, fully stocked; rent £25, which includes residence; price £400.

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9.—SCOTLAND.—Select Retail and Dispensing Business, together with Photographic Sundries; opening for Optics and Dental; returns £700, at fair prices; rent £28; reasonable offer accepted.

10.—HERTS.—Price £750; excellent Retail and Dispensing Business, *giving a clear income of* £279; returns show a steady increase, present rate £20 weekly; rent £28 per annum; held on lease; full investigation invited.

11.—NORTH OF ENGLAND.—Mixed Country Retail, Dispensing, and Agricultural, with own Proprietaries in good demand; returns about £3,000 per annum, at good prices; terms, valuation of stock and fixtures and sum for goodwill to be agreed.

12.—MIDLANDS.—Light Retail, Dispensing, and Photographic; splendid opening for Dentistry and Optics; returns between £1,000 and £1,100; *net profit* £250; rent £35; no serious opposition; about the valuation of stock and fixtures required.

13.—KENT.—Good-class Family trade, with General Country Retail; old-established; returns exceed £900 per annum; *net profit* £200; vendor estimates value of stock and fixtures at £425; price £500.

14.—SOUTHERN COUNTY.—Good-class Business, Retail, Dispensing, and Photographic; *giving a net profit of* £300; comfortable residence, held on lease at moderate rental; price £750.

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£870 returns.—SOUTHERN INLAND WATERING PLACE.—First-class Retail and Dispensing on old lines; there is ample room for a more energetic man, but he must be used to this class of trade; price about £750.

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UNOPPOSED; centre popular, rapidly increasing town, South Coast; opened 3 years; returns £575. £657, £828; good-class, double-fronted corner shop, well fitted; good house; price £400, or reasonable offer.

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We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

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Telephone: 1809 Central.

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2.—SOUTH-WEST COAST.—Good-class Retail and Dispensing, increasing; returns £1,250; net profit over £300; good house; attractive Pharmacy, exceptionally well-fitted and stocked; price £975, little more than valuation.

3.—MIDDLESEX (Rising Locality).—Good-class Retail and Dispensing Business, in best position; returns over £1,500; net profit £400; modern premises, fitted in best style; price about £950.

4.—KENT (Delightful Locality).—Good-class Country Retail, unopposed; returns £950; no Opties or Photo; large shop; excellent stock; good house; low rent; price £500; good introduction.

5.—HERTFORDSHIRE (Market Town). — Good-class Light Family Retail, increasing; returns £950; net profit £300; fine modern Pharmacy, well stocked; easy hours; price £750.

6.—SOUTH-EAST COAST.—Good-class Business, in excellent position; returns £1,200; low rent; fine house and shop, well fitted and stocked; price £550, or offer.

7.—WILTS.—Unopposed Light Country Retail, with Mineral Waters; returns £1,200; net profit £300 clear; large house and garden; stock worth £650; price £700.

8.—S. WALES (Seaport Town).—Good middle-class Retail; returns £1,400; net profit about £375; fine position; large house and garden; stock and fixtures worth about £800; price £850.

9.—WEST LONDON.—£550 or valuation secures a sound Cash Business in busy main thoroughfare; turnover exceeds £1,250; net profit £350 after paying assistant and all expenses; good premises; illness sole cause of selling.

10.—NORTH LONDON.—Cash Retail; returns £1,036; net profit £350; books kept; modern Pharmacy, well stocked; price £800.

STOCKTAKINGS.

We undertake stocktakings on a very low scale of commission or an agreed fixed fee, and also price out Chemists' own stocktakings. Please apply for our terms.

Businesses Wanted. Buyers Waiting.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

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BIRMINGHAM.—Main road; returns £4 to £7 per week; scope for a big increase; good opportunity; N.H.I., Dentistry, and Opties; would suit qualified or unqualified; established 8 years; handsome shop, well stocked; good house, with garden; rent 11s., with rates; price £100, or reasonable offer. 200/3, Office of this Paper.

BRADFORD, Yorkshire.—Populous, rising district; average returns £17 weekly; N.I.D. £3 a week, good house attached; rent £30; shop opened 6 years; good scope for increase; corner shop in main road; price £500; shop situate at 658 Manchester Road. Apply, J. Savage & Co., 254 Manchester Road.

DEVON Seaport.—Light Retail, Dispensing, Prescribing, and Photographic; steadily growing, main road; long lease; old-established; 1914 returns over £500, 1915 at rate of over £600; owner leaving Retail. 199/40, Office of this Paper.

EAST SUSSEX (Important Town).—To be Disposed of, an old-established Chemist's and Druggist's Business, with Post Office attached; good position and living accommodation; rent £30; stock, etc., £110. Full particulars of J. R. Thornton & Co., Lewes.

LONDON, E.—Old-established profitable Cash Retail; same hands many years; with N.I.D.; in a busy market place with plenty of scope for increase; much neglected; good reason for disposal; house 5 rooms and garden; price to immediate purchaser £120, or nearest. 201/4, Office of this Paper.

LONDON, W.—Owing to family reasons, a newly established progressive Cash Business, with great scope for increase, for Disposal in new, rapidly growing West suburb; genuine, bona-fide; only needs seeing to be appreciated; splendid opening for Optics and Dentistry; would suit young Pharmacist; price less than valuation; bargain. 202/3, Office of this Paper.

LONDON, W.—Good-class West-End Business for immediate Disposal; death cause of sale; returns average over £2,000; gross profits about £770; scope for increase by personal attention. Apply, "Lucius" (202/25), Office of this Paper.

MANCHESTER.—Chemist, retiring, wishes to Dispose of his Business; returns for the year 1914, £1,075; low rent (house attached); accept valuation of stock and fixtures, about £300; stock could be further reduced if desired. Apply, "Genuine" (201/17), Office of this Paper.

MANCHESTER.—In one of the best suburbs, a large, elegantly fitted Shop with every convenience for business, and a good house; plenty of scope to develop; value of stock and fittings about £450; no reasonable offer will be refused; good reasons for disposal. Apply, 203/16, Office of this Paper.

MIDLANDS.—Old-established Light Retail and Dispensing Business, occupying commanding position in residential town, giving assured income, which can be considerably increased; owner, for domestic reasons, is prepared to make any sacrifice to quick purchaser; come and view and make an offer. "Althea" (203/39), Office of this Paper.

SOUTH COAST (Fashionable Resort).—First-class Dispensing Business; in same hands many years; selling solely through illness; fine position, with scope for increase; turnover £2,500, at best prices; handsomely fitted; splendid stock; price £1,500, for which full value is offered. Address, "Retiring" (206/42), Office of this Paper.

SOUTHERN COUNTY.—High-class Family Retail and Dispensing Business; pleasantly situated, unopposed, and showing steady increase; returns nearly £1,450; excellent profits; nice house and garden; modern fittings; fully stocked; price £800; opportunity seldom offered; cash buyers only entertained. "Progress" (206/22), Office of this Paper.

CHEMIST'S Business for Sale; attractive opening for young Chemist; well-stocked business in Ayrshire, with mining and farming connection. Particulars from Philp & Crawford, Writers, 213 West George Street, Glasgow, to whom offers should be sent.

FIXTURES, Fittings, and Stock of T. Higham, 11 Market Street, Lewes; established 1845; corner shop; good position; sub-P.O. can be had, which more than pays rent and rates. Apply, Thornton & Co., Auctioneers, Lewes, Sussex.

INLAND Health Resort.—Old-established and neglected Business, returning £800 per annum (formerly £2,000); a splendid opportunity for a young man; handsome shop, double-fronted; excellent house, with private entrance; offer wanted; must be sold. Apply, 201/64, Office of this Paper.

OLD-ESTABLISHED Chemist's double-fronted corner Shop; present tenant's 15 years' lease expires Christmas; good business done for many years, also N.H.I.; rent low; no near opposition; working-class locality; cash trade; shop now closed by tenant, removed to a new locality, Westrope Street. 65 Branston Road, Burton-on-Trent.

OLD-ESTABLISHED and profitable Agricultural Business in centre of market town, on reasonable terms. 203/26, Office of this Paper.

TO LET.

CHEMIST'S Shop to Let in best position of Tylorstown, Rhondda Valley; absolutely safe opening for a fully qualified man; centre of densely populated district supplying best Admiralty coal; interior of shop and windows recently fitted complete with modern fittings for Chemist; an exceptional opportunity. Apply, Mrs. Smith, Brynaethnen, Tylorstown, Rhondda.

CHEMIST'S Shop to be Let; business established over 60 years, now vacant owing to death; situate 146 Southampton Street, Camberwell, S.E. Apply to E. J. Barrett, 70 Southwark Bridge Road, S.E.

BOARD AND RESIDENCE.

CHARMING Home for Chemists' Assistants, Science Students, etc.; situated only two minutes from a College of Pharmacy; large garden; three boarders can be accommodated; no children. "Belmont," Grove Road, North Finchley.

AGENCIES.

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LONDON Manufacturers' Agent, with connection amongst Wholesale Chemists, Perfumers, Confectioners, etc., open to accept few additional Agencies for good selling lines in continuous demand. 200/13, Office of this Paper.

THE Secretary of the Irish Commercial Travellers' Association is desirous to hear of an Agency for Dublin and district; full particulars on application. Address, J. V. MacConville, 33 Lower Abbey Street, Dublin.

TRAVELLERS offered excellent Side-line; Agency for Sanitary article universally wanted; expenses and commission. State towns covered, Campion, 58f Hatton Garden.

FOR SALE.

CHEMIST'S Fittings for sale cheap; 3 Mahogany-top Counters, fitted with drawers; 3 Glass Cases, quantity of shelving, pilasters and cornice; 200 Mahogany drawers. Write, "R. T.," 18 Cornhill, E.C.

NATIONAL Cash Register; second-hand; good condition; recent make; keys ½*d.* to 10*s.* Write, "D. P.," 10 Ests Road, Battersea, S.W.

TO Chemists and Others.—Several high-grade new and second-hand Typewriters for disposal; sacrificed at ridiculous prices for cash; machines from 60*s.*; all guaranteed perfect by written guarantee; free approval; send for list; must be sold, cash needed. White, Dome Chambers, The Arcade, Northampton.

SALES BY AUCTION.

MESSRS. ELLIS, WILLIS & BECKETT, George Street, Sheffield, have instructions from me to SELL by AUCTION the Mahogany Fixtures and Fittings of 318 Shalesmoor, Sheffield, at 2.30 p.m. on THURSDAY, AUGUST 26.

The lot is comprised of Shop-rounds (Recess Labels as new), Ointment-jars, Counters, Counter-cases, Wall-cases, Nests of Drawers, also a small and complete Nest of Drawers with glass labels, Gas and Electric Fittings, etc.; suit small or large Pharmacy. ED. H. SWIFT, Proprietor.

BUSINESSES WANTED.

ADVERTISER is open to enter into negotiations for the purchase of a sound Business showing good returns, or would not object to a neglected one if position is good; Liverpool district preferred. "Pharmacist," c/o Messrs. Ayrton, Saunders & Co., Hanover Street, Liverpool.

WANTED to purchase, well-established Business in toilet specialities; mail order preferred. State how long established and price, "P.," 18 The Crescent, Chiswick, W.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

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This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL.

BALHAM.—A reliable Assistant required; elderly man not objected to: outdoors; good salary; Photographic knowledge necessary; qualification not so essential as good Dispensing and general knowledge; abstainer preferred. Apply, by letter, Cooper, Central Pharmacy, Balham, London, S.W.

BIRMINGHAM Suburb.—Qualified Assistant required for medium-class business, with N.H.I. Dispensing, etc.: no heavy trade; outdoors; age immaterial; every consideration would be given to a reliable man seeking a permanency. Apply, in first instance by letter, giving full particulars, to C. Moores & Co., 11 Bromsgrove Street, Birmingham.

CAMBERLEY (Surrey). Capable, gentlemanly Assistant (outdoors) for good-class business; comfortable berth; easy hours; no extra duty; wanted chiefly for Dispensing. State usual particulars, in first letter, as to salary, when at liberty, height, and references. H. Coates, Pharmacist, Camberley.

CAMBRIDGE. Assistant required at once; outdoors. State full particulars and salary required. Apply, S. F. Barker, 46 Chesterton Road, Cambridge.

CAMBRIDGE (Outdoors).—Required about September 6, unqualified or qualified; no Sunday or holiday duty; small amount of N.H.I. Apply, with particulars, to Mr. David Sturton, c/o R. Sturton & Son, 7 Fitzroy Street, Cambridge.

CHELTENHAM.—Experienced Senior, 25 to 30, for good-class Dispensing and Photographic business; no Insurance Dispensing. Please send full particulars, with photograph, to Beetham & Clark.

COVENTRY.—Wanted at once, unqualified Assistant for light Retail and Dispensing. Good wages to reliable man. Full particulars to Bales, Chemist, Albany Road, Coventry.

DARLINGTON.—Wanted, qualified or experienced Assistant for good-class Dispensing and Retail business. J. E. Hodgson, Chemist, Darlington.

EAST LONDON.—Young lady Assistant waated, temporarily. Salary required, etc., to "Alderney" (201/100), Office of this Paper.

ERITH-ON-THAMES.—Assistant (outdoors), for two weeks or longer from August 23 or August 30, or permanoacy; qualified or unqualified; must bo steady and experienced in Dispensing and Photographic trade; reasonable hours; applications not answered within seven days respectfully declined. W. Reesoa, 80 High Street, Erith, Kent.

FARNBOROUGH.—Wanted, two Junior Assistants or Improvers. Please give particulars, with salary (outdoors), to Litchfield, Pharmacist, South Farnborough.

FOLKESTONE.—Junior Assistant wanted, qualified or unqualified, for high-class Retail and Dispensing business; and to help in Analytical work, previous experience unnecessary. Apply, with full particulars, and state salary (indoors, with Senior), to J. W. Stainer, 71 Sandgate Road.

GORLESTON-ON-SEA.—Qualified Assistant for pleasantly situated Light Retail and Dispensing business; indoors; comfortable home; full particulars as to age, salary required, and references; would suit elderly or semi-retired gentleman. P. R. Hill, 90 High Street, Gorleston-on-Sea.

GRANTHAM.—Wanted at once, unqualified Assistant or competent Junior; outdoors; comfortable berth; easy hours. Apply, giving full particulars and salary required, to John Cox & Son, 36 Watergate, Grantham.

LONDON, N.—A capable Assistant wanted at once. State age, experience, salary required, when disengaged, Charles W. Andrew, Ph.C., 18 High Road, East Finchley.

LONDON, N.W.—Lady Pharmacist wanted for good-class Dispensing business; furnished apartments provided, shared by other lady Assistant. Apply, "Pharmacy," c/o Messrs. Meggison & Co., Miles Lane, Upper Thames Street, E.C.

LONDON, S.E.—£156 per annum, and excellent house in a residential London suburb; Assistant; married; 25 to 35; qualified; total abstainer; must be quick and reliable Dispenser, with undeniable references; hours 8.30 till 10, and alternate Sundays. 203/18, Office of this Paper.

LONDON, S.W.—Manager wanted immediately for branch shop; qualified preferred. Apply, Day, 113 Dawes Road, Fulham.

LONDON, S.W.—A competent, reliable, and experienced Assistant for Dispensing Counter; salary 60s.; no Sunday or Bank Holiday duty. Full particulars to 206/1, Office of this Paper.

RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

TO SAVE TROUBLE.

MANY correspondents auswering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the samo position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitableness.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

LONDON, W.—Qualified Assistant; good experience. G. R. Walker, 36 New Cavendish Street, W.

LONDON, W.C.—Assistant wanted (outdoors) for good-class Pharmacy and Dispensing business. J. W. Roberts, 10 Tavistock Place, Russell Square, W.C.

MANCHESTER.—Improver or Junior Assistant wanted; must be trustworthy. Apply, stating full particulars, to C. A. Jones, Chemist, Reddish, Manchester.

MANCHESTER.—Wanted at once, qualified Assistant; lady or gentleman; Retail and Dispensing; salary £2 10s., indoors. State age, references, etc., 201/62, Office of this Paper.

MANCHESTER.—Elderly or middle-aged qualified man; easy hours; not single-handed; permanency for the right man. Give full particulars in first letter, 206/9, Office of this Paper.

PENARTH.—Unqualified Assistant required; outdoors. Apply, stating age, height, and salary required, to Benjamin, Chemist, Penarth.

ROCHDALE.—Qualified Assistant to take charge of branch; outdoors. Apply, stating age, salary required, and references, to Highleys, Chemists, Rochdale.

SOUTH OF ENGLAND.—Assistant required; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

STREATHAM PROVIDENT DISPENSARY.—Locum required early in September for a fortnight; duties light (6 hours daily, 1 hour Sundays) and exclusively Dispensing; no N.H.I. work; a lady with Hall certificate would suit if experienced. Please state terms (outdoors), qualification, and full particulars to Resident Dispenser, 16 Natal Road, Streatham, London, S.W.

SURREY (about 25 miles from Town).—Qualified Manager required for high-class Dispensing and Light Retail business in country residential neighbourhood; good salary offered, and short hours; one other Assistant kept. 204/33, Office of this Paper.

WEST RIDING.—Qualified Assistant about September 6; Light Retail and N.H.I. Dispensing; easy hours; permanency to suitable man; elderly not objected to. State full particulars, 204/31, Office of this Paper.

WEST RIDING.—Excellent opening for young married man (qualified), to take charge of Light Retail business in residential suburb; liberal interest in the profits offered. 205/100, Office of this Paper.

WOLVERHAMPTON.—Wanted, a qualified Assistant, used to good-class Retail and Dispensing business. Please give full particulars, and state salary required (outdoors), Phillips, Pharmaceutical Chemist, Wolverhampton.

AN experienced Assistant required for middle of September for good-class Retail and Dispensing business; must be a reliable Dispenser; no N.H.I. work; outdoors. Apply, stating experience, salary required, and references, with photo if possible, to J. W. Moorhouse, Pharmacist, 12 Market Hill, Barnsley.

ASSISTANT; light duties; Photography an advantage; no Sunday duty; close at 8 o'clock, except Saturday. Freshney's, Chemists, Grimsby.

ASSISTANT wanted with good Dispensing experience; 45s. per week minimum; whole day off one week, and half-day (from 1 o'clock) off the next week, alternately. Please give particulars as to age, experience, references, when disengaged, etc., in first letter, to Bishop & Vincent, 460 Holloway Road, London, N.

ASSISTANT for Light Retail and Dispensing; lady not objected to. State age, reference, and salary required, to Timmins, Pharmacist, West Hartlepool.

AT once.—Young Assistant for four or five weeks; near London. State age, salary, etc., Gibbs, Pharmacist, Berkhamsted.

DISPENSER, qualified under the Insurance Act, wanted for Insurance department only; outdoors; male or female. Apply, "Veritas" (205/23), Office of this Paper.

FOR September.—Vacancy for Junior in North London Pharmacy; live in; comfortable home; time off daily; half-day weekly; healthy suburb; suit lady or gentleman. Apply, J. S. Jenkin, Chemist and Optician, 352 High Road, Wood Green, London, N.

ENERGETIC Assistant, with good references; outdoors; good salary. Tremlett, Chemist, Portsmouth.

JOHN BARKER & CO., Kensington, W., require a qualified Dispenser and an unqualified Counterman; hours 8 to 6, 1 o'clock Saturdays. Apply, R. E. Barou.

JUNIOR Assistant wanted; unqualified; outdoors; Light Retail business; short hours; Wednesday half-day. Apply, stating age, height, experience, when disengaged, and salary required, to J. W. Hoyle, Southborough, Kent.

JUNIOR or Improver; Light Retail and Dispensing; with some knowledge of Photography; outdoors; easy hours; 8 to 7.30, Thursday 1, Friday 9, Saturday 10; no Sunday duty. State age, height, references, and salary required to Hodgson & Hepworth, Ltd., Doncaster.

JUNIOR or Improver, about 20; must be accustomed to good-class Retail; exceptional facilities are afforded for experience in both Dispensing and Optical departments, and a comfortable, progressive position assured to suitable man. State full particulars first letter, salary required (indoors), when disengaged, and enclose recent photo to Body, "Westwood," Westcliff-on-Sea.

JUNIOR wanted; outdoors; two kept; excellent experience in Dispensing and Retail. Apply, giving full particulars, to C. Coutts Michie, 175 Kentish Town Road, London, N.W.

LEWIS & BURROWS require the services of a good unqualified Assistant. Apply, with full particulars, to 146 Holborn Bars, E.C.

LOCUM for a fortnight from September 6. Arthur Pratt, Pharmacist, 17 College Parade, Brondesbury Park, N.W.

LOST.—A qualified capable Branch Manager, thoroughly sober and honest, receiving £3 5s. per week; would any Chemist desirous of filling the post kindly apply to Bewells, Ltd., 19-21 Pitfield Street, N.?

MESSRS. Ransford & Cunningham require immediately an Assistant; qualified preferred; good salary to a capable man. Full particulars and photo to 36 Sandgate Road, Folkestone.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist as Manager; easy hours; good and progressive salary, with excellent prospects.

QUALIFIED Assistant or Manager (24); West-End and provincial experience; abstainer; outdoors; excellent references; disengaged three weeks hence. "Utilis" (202/15), Office of this Paper.

QUALIFIED Manager for important business on modern lines; desirable locality, health resort, near London; must be of good address, capable, energetic, enterprising, and good Window-dresser; to a man open to co-operate and improve business certain progress is assured; applicant must be reliable, conscientious, and have the business thoroughly at heart; first-class references only entertained; vacancy end of September (outdoors). State experience, age, salary, etc., references, photo (if possible), "Progressive" (198/24), Office of this Paper.

QUALIFIED Manager, young, required for small Branch; sea-side; Light Retail, Dispensing, and Photographics; single-handed. All particulars and references to Warne, Chemist, Ventnor, I.W.

QUALIFIED Assistant wanted immediately for good-class Dispensing and Light Retail; indoors. Apply, E. B. Morgan, Pharmacist, Enfield, Middlesex.

QUALIFIED and Junior Assistants required immediately; qualified to Manage and Junior to assist in Branch; must be able to furnish good references; easy hours; abstainers preferred; permanency to suitable men. Apply, giving full particulars and salary required, to Ralph Ling, Chemist, Cromer.

QUALIFIED Manager for good-class Dispensing and Family trade; married, to live on premises; good house; a good Salesman and Dispenser, with Photographic experience; must be neat, accurate, and of sound business capabilities; Junior kept. State full particulars of experience, age, and salary required, Tootill, Pharmaceutical Chemist, Altrincham.

QUALIFIED.—Young Assistant wanted; Dispensing (good class); easy position; comfortable home. Carte-de-visite, references, and salary asked, to Edward Maish, Cotham Brow, Bristol.

QUALIFIED Assistant wanted for large business in South Wales; would suit man getting on in years if active. State salary required, and when at liberty, 205/10, Office of this Paper.

QUALIFIED Manager required immediately for brisk Cash business in the Midlands. Applicants should give full particulars of experience, and state age and salary required. 204/22, Office of this Paper.

QUALIFIED Assistant; outdoors; would suit elderly gentleman or semi-retired; very easy berth; no Sunday duty; half-day weekly; healthy district; short hours. 204/10, Office of this Paper.

RELIABLE Junior Assistant required immediately (outdoors). Send full particulars and photo (if possible) to Ralph Cuthbert, Ltd., Chemists, Huddersfield.

SENIOR (outdoors); state qualification (if any), references, salary required, and usual particulars, enclosing photo. Frederick March, 34 Fleet Street, Torquay.

SHOULD a qualified Manager or Assistant who is having holidays care to do a week's light Locum work, will he please write to "J. D." (201/23), Office of this Paper, stating salary required, etc.

SMART Junior; permanency; good Dispenser; state age, experience, and salary required; three Assistants kept. Send photo, Galloway, Blackpool.

THERE is a vacancy at Thompson & Capper's, 51 Piccadilly, Manchester, for an Assistant, energetic and accustomed to a good-class Counter trade, with some knowledge of Photography. Apply, Thompson & Capper's, Mancsty Buildings, College Lane, Liverpool, enclosing photograph if possible.

TWO qualified Assistants; accustomed to first-class Dispensing business. Symes & Co., Ltd., 14 Hardman Street, Liverpool.

UNQUALIFIED Assistant wanted immediately; Newcastle-on-Tyne; one with some knowledge of Agricultural preferred; permanency. State age, height, and salary, giving references, to 203/19, Office of this Paper.

UNQUALIFIED Assistant wanted at once; single; good Dispenser; outdoors. Apply, stating age, height, and salary required, E. H. Slater, High Street, Epping, Essex.

UNQUALIFIED straightforward man for small London shop; one with rudiments of the trade or straight from Wholesale house would be trained as Manager; no Poisons; no Dispensing; no hurry or scurry; salary 30s. and commission; after few weeks quite £2 weekly should be your salary. Hayes, 1 St. Ann's Road, Notting Hill, W.

WANTED, first week in September, unqualified Assistant, if married to live on premises; roomy house and lawn; one seeking a permanency preferred; Midland county town; comfortable berth; half-day weekly; very little Sunday duty. Give particulars, 202/20, Office of this Paper.

WANTED, unqualified Assistant; outdoors; reasonable hours. Apply, "Quibell," The Station Pharmacy, Golders Green, N.W.

WANTED, capable unqualified Assistant, not eligible for military service; Dispensing and Photographic; easy hours, and no Sunday duty; good references essential; permanency; full particulars to Tavener, Pharmacist, Guildford.

WANTED at once, qualified Assistant, lady or gentleman; Light Retail and N.H.I.; comfortable position; short hours; would suit elderly man; permanency to suitable person. Particulars and salary required, first letter, Fereday, Cheslyn Hay, Walsall, Staffs.

WANTED, lady Assistant, age about 21, for Counter and to assist with Dispensing; qualified lady kept. Please state salary (outdoors) with references, etc., to T. Charles, Chemist, Burslem.

WANTED at once, Branch Manager; qualified; easy position; permanency with good prospects; no Sunday duty; weekly half-holiday; not long hours; elderly man not objected to; Midlands, manufacturing district. State age, wages required, and usual particulars, 205/7, Office of this Paper.

WANTED, Assistant (unqualified) for Country Store Drug Department; one accustomed to manufacture of Proprietary goods and Window-dressing. Lankester & Crook, Ltd., Woolston, Southampton.

WANTED, Junior Assistant for September 14; weekly half-holiday; no Sunday duty; outdoors. Apply, with reference and salary required, to Thomas, Chemist, Faversham.

WANTED at once, unqualified Assistant (young lady or gentleman) for Dispensing Counter and Manufacturing Proprietaries. Send full particulars of experience, references, salary required, etc., to Walker & Harris, Ltd., Canterbury.

WANTED, unqualified Assistant; must be good and accurate Dispenser. Apply, giving experience, salary, and when at liberty, 205/101, Office of this Paper.

WANTED, an Assistant to take charge of the Dispensing Counter; must have had good experience in high-class business, together with knowledge of preparation of Galenicals, etc.; gentleman desiring a permanency and over military age or unfit for military duty preferred; comfortable hours. State salary required (outdoors) and all particulars to 203/7, Office of this Paper.

WANTED, qualified man; used to N.H.I. Dispensing; good wages. Apply, Wm. Fox & Sons, Ltd., 109/113 Bethnal Green Road.

WHOLESALE.

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A WELL-KNOWN Surgical and Druggists' Sundries house are in need of a Representative to work the Midlands. Write fully, stating age and qualifications, 201/20, Office of this Paper.

ANALYTICAL Chemist required for Chemical Works situated in the country; must be fully qualified, Laboratory and Factory work. State full details of past experience and salary required, "H. L." (199/24), Office of this Paper.

CAPSULE Makers and Lozenge Cutters; permanent work for experienced hands. J. Denoual & Co., Carlton Works, Asylum Road, S.E.

CLERK wanted for Export Department; experienced in invoicing and shipping. Full particulars, stating age and salary required, to Secretary, Baiss Brothers & Stevenson, Ltd., Wholesale Druggists, 174/176 Grange Road, Bermondsey, London, S.E.

DRY Counterman wanted; comfortable permanency; mention age, experience, and all usual particulars. "B. U." (205/24), Office of this Paper.

ENERGETIC and enterprising resident Representative required in Ireland by old-established leading Paris manufacturers of high-class Perfumes, Face Powders, Fancy Soaps, Brilliantines, etc., to call on principal Chemists, Ladies' Hairdressers, Stores; commission only; good Side-line for gentleman already calling regularly on the trade, and able to extend established connection. Write fully, stating age and qualifications, to 183/7, Office of this Paper.

EXPERIENCED man to take charge of Laboratory; must be a competent Tablet and Capsule maker. State full particulars and salary required, F. M. Rimmington & Son, Ltd., Bridge Street, Bradford.

INVOICE Clerk wanted; must be efficient and quick at figures. Apply, by letter, stating full particulars, age, and salary required, to "X. R. L.," S. Maw, Son & Sons, 7 to 12 Aldersgate Street, E.C.

JUNIOR Assistant for Wholesale; qualification unnecessary. State age, experience, and salary required, Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

LABORATORY.—Experienced Manager required by Wholesale Drug house; must be accustomed to control staff, supervise manufacturing processes, and able to test and standardise Drugs and Galenicals. Apply, giving full particulars of experience, salary required, etc., 200/9, Office of this Paper.

LABORATORY Assistant wanted by a London firm manufacturing Toilet and Perfumery lines; permanency. 201/7, Office of this Paper.

PHARMACY Laboratory.—Wanted, for provincial house, Assistant who has had experience in the manufacture of Galenicals etc., and to control small staff. Apply, stating salary, to 199/58, Office of this Paper.

WANTED, Counterman; accustomed to putting up Oils and heavy Wets; also competent Packer. State wages and experience, 202/36, Office of this Paper.

WET or Dry hands, with some experience. Apply, stating full particulars of age, experience, and wages expected, to 205/40, Office of this Paper.

YOUNG Pharmacist required by a large and well-known firm of Manufacturing Chemists in London, with an extensive home and foreign connection; plenty of scope for a progressive man; previous Wholesale experience not necessary. Apply to 200/68, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for **50** words or less; **6d.** for every **10** words or less beyond, prepaid. The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

INDIA.—Wanted, a really smart qualified Assistant; must be first-class Salesman, up to date in Photography; 4 years' agreement; commencing salary 250 rupees per month for the first year, and increasing by 25 rupees per month each year of engagement; passage paid both ways; there is a very good opportunity for a smart man; knowledge of branch books desirable. Apply, "G. K.," Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close.

APPLICATIONS are invited for the post of Dispenser to a Hospital in Paris; fluent French and knowledge of both French and English Pharmacy essential. Write, with full particulars, to 202/4, Office of this Paper.

FOR the Far East, a thoroughly competent Assistant with Minor qualification; age not over 30; must have had good experience in first-class Retail business; good salary for the right man; passage paid out and home; four or five years' agreement. Address, "Export" (205/26), Office of this Paper.

WANTED for abroad, an experienced man to take charge of and do practical work in Pharmaceutical Laboratory. Apply, by letter in the first instance, giving full particulars of experience, age, and salary required, to Allen & Hanburys, Ltd., Bethnal Green, E.

WANTED by old-established British firm in Calcutta, Junior Assistant with Minor qualification; single; age under 25; four years' agreement, passage paid both ways. Apply, giving particulars of experience, to 192/40, Office of this Paper.

PARTNERSHIPS.

PARTNERSHIP wanted, with view to succession; advertiser, aged 40, is well educated, energetic, and businesslike, and has good all-round experience; he would prefer to succeed an older man desirous of retiring from well-established country business where Dentistry could be added. "Scot" (201/10), Office of this Paper.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.]
RETAIL.

A LOCUM; 35; 20 years' experience; good references; knowledge of Dentistry; open from September 13. "H. S. W.," 43 Brougham Road, Seacombe, near Liverpool.

ADVERTISER, 39, tall, single, good address, 20 years' first-class London and provincial experience; competent and reliable; used to sole charge; unregistered; disengaged shortly; Locum or permanent. "Lenoil," 76 Kimberley Gardens, Harringay, N.

ALL-ROUND qualified man; 26; tall; 8 years' good experience. "Reliable" (204/28), Office of this Paper.

ASSISTANT, unqualified, desires change; Halifax district preferred; Retail and Dispensing experience; references if required. 201/9, Office of this Paper.

ASSISTANT (married); unqualified; age 26; permanency; London experience; outdoors; good Dispensing experience. 202/29, Office of this Paper.

ASSISTANT (35), tall; excellent references; good Salesman, Dispenser; fluent French and Italian; 3½ years in the City; permanency or Locum. "H. M. M." (202/37), Office of this Paper.

ASSISTANT (30), tall; 15 years' excellent experience good-class Dispensing, Prescribing; disengaged; seaside berth preferred. Salary, Dickinson, 7 Sandringham Road, Sneinton, Nottingham.

ASSISTANT Dispenser, unqualified (lady), middle-aged, desires post under another. 204/26, Office of this Paper.

ASSISTANT, experienced, disengaged three or four days week at 2 p.m.; best references; Dispensing or take charge. 205/16, Office of this Paper.

BELGIAN Pharmacist, Analytical Chemist, qualified, 10 months' experience in Retail and Dispensing W.C., seeks new berth in Retail or Wholesale. H. Piéret, 126 Wardour Street, London, W.

BRANCH Manager or Locum; 45; qualified; experienced London and provinces. "Triamine" (205/5), Office of this Paper.

COMPETENT experienced Assistant (39) seeks re-engagement about September 9; take charge or Manage branch; all-round man; 12 years last post; highest references. W. H. Odgers, 16 Church Street, Helston, Cornwall.

COUNTER and Stores; all-round experience; unqualified; no Dispensing; disengaged. "D.," 12 Ferndale Road, Stamford Hill, N.

DISENGAGED; Locum, permanency; moderate terms; excellent references. "Chemist," 124 Stanhope Street, N.W.

DISPENSERSHIP; qualified; 42; single. Barker, Robinson's Place, Woodbrook, Oldham.

ELDERLY qualified Manager-Assistant; N.H.I.; single; permanency; active; Prescriber; light duties; moderate hours. 202/24, Office of this Paper.

ELDERLY qualified retired Pharmacist is open to an engagement; permanency; outdoors; small salary for light duties. 203/22, Office of this Paper.

EVENINGS, to assist in Dispensing; S.E. district preferred. "W. R.," 13 Tisdale Place, Rodney Road, Walworth.

HOSPITAL or Doctor's Dispenser; disengaged; highest references; willing Locum. Scott, Royal Hampshire Hospital, Winchester.

JUNIOR (22); nine years' experience Mixed business; Dispensing, Extractor; free on September 5. Ulyat, 9 Whitehall Grove, Lincoln.

LADY Dispenser-Bookkeeper, 10 years' experience, unqualified desires post medical man; London neighbourhood; good reference. "T. M.," 80 Sheen Park, Richmond, Surrey.

LADY (22), unqualified, seeks post as Assistant Dispenser; 10 months' training; good worker; Sussex preferred. Beaumont, 21 Upper Market Street, Hove.

LADY Dispenser requires post; Doctor or hospital; qualified. Miss Clarke, "Stagsholt," March.

LADY, Minor qualification, desires good position as Dispenser in a Retail establishment; can assist at Counter; good Dispensing experience; outdoors; can commence shortly. Apply, 205/12, Office of this Paper.

LADY; qualified; evenings, Saturday afternoons; Doctor or Institution; interested in Analytical work. 206/15, Office of this Paper.

LOCUM Tenens.—Situation required as Locum; two weeks, September 1 to 14; Birmingham district preferred; four years' experience; private and N.H.I. Dispensing. Apply, "J. H. S." (201/5), Office of this Paper.

LOCUM; thoroughly capable; unqualified; all branches; 15 years' experience; London district only; disengaged August 23. Seddon, "Redcliffe," Jesmond Avenue, Wembley, Middlesex.

LOCUM or Manager; thorough experience; unqualified; disengaged September. "Trustworthy" (202/9), Office of this Paper.

LOCUM; qualified, experienced, reliable; disengaged August 26. H. Pepperdine, Winton Square, Basingstoke.

LOCUM; qualified; age 36; disengaged; references given and required; personal interview. 205/19, Office of this Paper.

LOCUM; 29; unqualified; tall; disengaged until September 5. "G. L.," 59 Whyteville Road, Forest Gate, N.E.

MANAGER, unqualified, married, 34, tall, 18 years' experience, seeks permanency; highest references. Address to "Forward" (201/21), Office of this Paper.

MANAGER, qualified, disengaged August 26, requires berth; permanency; good Salesman, Prescriber, and Dispenser; married. "Pharmacist," 4 Winton Square, Basingstoke.

MANAGER, qualified (38), desires permanent change; present situation 6 years; under no notice; active, personality, controller; high-class Dispensing, quick Store. Photographic experience. 205/4, Office of this Paper.

MANAGER or Senior; unqualified; married; outdoors; West-End experience; excellent references. 204/8, Office of this Paper.

MANAGER, M.P.S., extensive experience as Manager competitive trading in London and provinces, desires permanency giving scope for keen, energetic business man; skilled in all branches; married; 34; abstainer. 203/30, Office of this Paper.

MANAGER; unqualified; married; 42; first-class experience; good Dispenser; successful Prescriber; 12 years with last employer; reference excellent. Apply, 206/6, Office of this Paper.

MANAGER or Senior; qualified; tall; good references; disengaged. 206/19, Office of this Paper.

MANAGER; Senior; 29; 5 ft. 10 in.; married; abstainer; experienced; permanency; disengaged. Please give particulars in first letter. "M.P.S.," 14 South Parade, Bath.

MANAGER; good varied experience; 38; excellent references; September 6 disengaged; unregistered; Mon. W. E. Morgan, 5 George Street, Pontypool.

MIDLANDS.—Branch Manager, age 37, unqualified, ineligible for Army service, desires permanency; experienced; smart Salesman, Window-dresser, Prescriber, N.H.I., etc.; disengaged one month. Address 205/20, Office of this Paper.

PHARMACIST, middle-aged, married, desires permanent branch Managership. "Chemicalis" (203/36), Office of this Paper.

PART-TIME; unqualified; experienced; Richmond district preferred. "Alpha," 47 Staines Road, Sunbury-on-Thames.

POSITION wanted as Improver; tall; good appearance. Byron Rigby, Skelmersdale, Lancs.

QUALIFIED; 38; varied City Dispensing and Retail experience; accustomed to take charge; disengaged. 164 Avenue Road, Acton, W.

QUALIFIED Manager; 6 ft.; age 40; permanency. "Pharmacist," 51 Cyprus Road, Bootle, Liverpool.

QUALIFIED; 25; abstainer; Dispensing, Counter work, or Manager; London preferred. 205/25, Office of this Paper.

QUALIFIED; 50; tall; experienced; good appearance and address; references. "Advertiser," 3 Ranelagh Road, Pimlico.

REQUIRED by young lady, situation as Forewoman or Counter hand to Retail Chemist; £1 to 25s. a week. "Advertiser," Lawn Bank, Margaret Road, New Barnet.

UNQUALIFIED; disengaged September 7; thoroughly experienced; excellent references. "Belmont," Grove Road, North Finchley.

UNQUALIFIED; elderly; situation Doctor's Dispenser in London; exceptional experience and credentials; terms moderate; interview will confirm. Address, "Medical," 9 Marchmont Street, W.C.

UNQUALIFIED; experienced; permanency desired; country preferred; married (no family); disengaged month hence. 203/14, Office of this Paper.

UNQUALIFIED; good all-round experience; age 45; steady and reliable; Photography, Dentistry; 50s. "Statim," 29 George Street, Morecambe.

UNQUALIFIED; temporary, Locum; wanted within few days; two or three weeks; highest references; London area. "Locum," 18 Milkwood Road, Herne Hill, S.E.

YOUNG lady (20) requires post as Dispenser; qualified in Practical Pharmacy and Materia Medica; speaks French, acquired abroad. Miss Dawson, "St. Patrick's," Grand Drive, Raynes Park, S.W.

PHARMACEUTICAL Chemist (26), Square trained, silver and bronze medallist, requires Managership or responsible position in Retail or Wholesale; excellent experience in both; undeniable references. "Major," 283 Fulwood Road, Sheffield.

NEW EDITION OF "PHARMACEUTICAL FORMULAS."

The first edition of this work was published in April 1898, and the ninth in June 1914. In the interval the book has been much enlarged and improved. It comprises the following chapters:—Toilet Preparations and Specialities; Preparations for the Hair; Dental Preparations; Perfumes; Beverages; Culinary and Household Requisites; Horticultural and Agricultural Preparations; Writing Materials; Varnishes, Polishes and Stains; Lozenges; Miscellaneous Preparations; Photographic Chemicals and Preparations; Galenical and Medicinal Preparations; Bacteriological and Microscopic Work Preparations; Supplementary Chapter; Appendix. As a Book of Formulas for Chemists and Pharmacists there is no better than this in the English language. It was the first book officially approved by the Revenue Authorities of Great Britain as a well-known and recognised book—reference to formulas in which is accepted as evidence that a medicinal preparation is a "known, admitted and approved remedy" exempt from medicine stamp duty when sold in Great Britain by a privileged person. It is thoroughly up-to-date and extends to 1,078 pp., including a complete index. Price 10s., post free 10s. 6d., from the Offices of "The C. & D.," 42 Cannon St., London, E.C.; or from Wholesale Houses at the published price.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

WAR Time and Shortage of Staff.—Gentleman and his Assistant, who have helped build a large and well-known successful business, want to spend two hours every day with progressive firm; could undertake much of responsible work and give relief; moderate terms; references given. 201/24, Office of this Paper.

ADVERTISER, with allround knowledge Wets, Drys, Manufacturing, and Speciality departments, seeks position of trust; willing to travel; excellent references. 202/2, Office of this Paper.

ADVERTISEMENT Copy Writer; experienced booklets, folders, form-letters; qualified Pharmacist; now with large manufacturing Chemists, seeks wider field; £200. "Ineligible," (202/35), Office of this Paper.

ANALYTICAL Chemist with experience in the manufacture of Pharmaceutical and Toilet articles, also Agricultural and Horticultural Chemicals, is open for re-engagement. "F. C. S." (198/26), Office of this Paper.

CHEMIST (36), successful business man, relinquishing Retail, wants Representation on salary, expenses, and commission basis; good appearance; smart Salesman; well educated and a worker; can supply good references from Wholesale houses. "Midland" (205/21), Office of this Paper.

GENTLEMAN, with valuable connection amongst high-class Perfumery buyers, is desirous to Represent French house. Address, "Chic" (202/34), Office of this Paper.

LABORATORY Foreman; experienced in the manufacture B.P. and B.P.C. Tinctures, Ointments, Syrups, Infusions, general Galenicals, Wets, Drys, and despatch Sundries, Perfumery, and Toilet preparations; 21½ years' experience; disengaged. 202/16, Office of this Paper.

TRAVELLER desires re-engagement; excellent connection and selling record; qualified Chemist; familiar all branches Drug and allied trades; can influence business; reliable and experienced man with first-class references; disengaged. "Comp." (203/32), Office of this Paper.

TRAVELLER, experienced commercial training; smart Salesman, open to Represent first-class house; Essences, Oils, Perfumes, etc.; sound connection Manufacturing Confectioners, Mineral-water Makers, Chemists, etc. Apply, 184/3, Office of this Paper.

WHOLESALE.—Advertiser, thoroughly experienced in Laboratory, Packed Goods, and Drug Rooms, desires permanency. 204/34, Office of this Paper.

"C. & D." DICTIONARY SERIES.

THE CHEMIST'S DICTIONARY OF MEDICAL TERMS AND TREATMENT.—Contains over 280 pages. There is no medical dictionary so compact which gives so much up-to-date information. It goes straight to the point—which is what chemists most need when they have to answer medical questions asked by customers. Price 2*s.* 6*d.*, by post, 2*s.* 8*d.*

THE CHEMIST'S DICTIONARY OF SYNONYMS AND TRADE NAMES.—Like "Pharmaceutical Formulas" this dictionary is a record of experience rather than a compilation of everything that has been called a synonym in books and papers. It is exceedingly useful. Contains 220 pages. Price 2*s.* 6*d.*, by post, 2*s.* 8*d.*

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MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone, 81 Lee Green.

Shares for Sale (free of commission, subject).—50 Benger's Food Ordinary, 35*s.* 6*d.*; 500 Day & Martin, 2*s.* 3*d.*; 100 Idris "A" 6 per cent. Preference, 3*s.* 4½*d.*; 50 W. B. Fordham's, 11*s.* 6*d.*; 100 Ilford Preference, 15*s.* 9*d.*; 200 Mazawattee Ordinary, 1*s.* 1½*d.*; 10 R. Wheen Preference, 43*s.*; 300 A. J. White Ordinary, 6*s.*; 25 Southall Bros. & Barclay Ordinary, 42*s.* 10½*d.*; 30 Field's Candles Preference, 14*s.*

Wanted (subject).—£1,000 Idris Debentures, 60½ per cent.; 200 Lewis' & Burrows Preference, 9*s.* 7½*d.*

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TOM SHAW, Deceased.—Pursuant to 22 & 23 Vic. cap. 35 all persons having claims against the estate of Tom Shaw, late of 11 Little Stanhope Street, Mayfair, W., and of 174a Warwick Street, Pimlico, S.W., Pharmaceutical Chemist (who died on the 13th July last, administration of whose estate and effects was granted to Sarah Lucy Shaw by the principal probate registry on the 12th August instant), are to send written particulars thereof to me, the undersigned, on or before the 14th September next, after which date the administratrix will distribute the assets of the said deceased, having regard only to the claims whereof she then had notice. Dated the 14th August, 1915. John Fenn, 181 Queen Victoria Street, E.C., Solicitor for Administratrix.

SECOND-HAND Drug-fittings, all sizes; also Glass Counters, Silent Salesmen, Wall-cases, etc., etc.; Shop-front work and interior alteration a specialty. Farley & Co., Chemists' Shop Fitters, 227 Old Street, E.C.

SECOND-HAND SHOW-CASES AND SHOP-FITTINGS.—5-ft. Piano Wall-case, £10 10*s.*; Perfume Case and Desk, Mirror back and Glass Shelves, 58*s.*; Marble-top Sponge-case, 75*s.*; 4-ft. Silent Salesman Case, 3 ft. high and 2 ft. wide, 2 Plate-glass Shelves, £7 10*s.*; 6-ft. Dispensing Screen and Counter, Mirror centre, £7 15*s.*; hundreds of other bargains. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

CHEMISTS' Shopfittings.—Silent Salesman, Showcases, Window-enclosures, Dispensing-screens, Drug-fittings, Wallcases, Glass-front Counters, Counter Drawers, etc., at lowest prices; shop-soiled second-hand; 30 years fitting pharmacies; you will save time and money by sending your requirements to George Cook, The Chemists' Working Shopfitter, Catherine Street, City Road, Old Street, London.

CHEMIST'S BARGAIN, Second-hand.—14-ft. Drugfitting, complete; 2 Wall-cases, Mahogany; Plate-Glass Counter; Dispensing-screen and Counter, Counter Drawers divided for labels; 5-ft. Mahogany Bent Plate-glass Counter-case, Perfumery Case and Desk, Window Enclosure, the lot £59 10*s.*; cheapest house for Window Enclosures, Glass Shelves, modern Shop Fronts, Improvements, etc.; designs, estimates free. Mills, Shop Front, Shopfitting Glass Facia Works, 163-5 Old Street, London, E.C. 'Phone, 550 London Wall.

BEST cash price paid for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool, E.

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NEW EDITION.

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WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the customary business channels.

TERMS

Minimum charge (including registration fee) of **1/-** for six words or less; **2d.** per word beyond, prepaid. Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "The Chemist and Druggist."

WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise **stating quantity and price** to

THE WAR WANTS EXCHANGE,

"The Chemist and Druggist," 42 Cannon Street, London, E.C.

Bromural (198/34)
Novocain (198/34)
Cholelysin (tablets or powder) (201/8)

FOR DISPOSAL.

Bona-fide buyers of the following articles are requested to communicate their exact requirements promptly to us, and we shall place them in touch with sellers:—

Aristol, 1 oz. (202/31)
Citrophen, 25 grammes (202/31)
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Europhen, 1 oz. (202/31)
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Protargol, 1 oz. (202/31)
Salophen, 1 oz. (202/31)
Tannigen, 1 oz. (202/31)
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Trional, 6 × 1 oz packets (198/34)
Xeroform, 6 × 1 oz. tins (198/34), and 1 oz. (202/31)

DISEASES AND REMEDIES.

A concise survey of the most Modern Methods of Medicine written expressly for the Drug Trade by Physicians and Pharmacists. This treatise was first published as a part of The Chemist and Druggist Library under the impression, which has been justified by experience, that it is of the utmost importance that Retail Chemists should be acquainted with Diseases as well as with Remedies, and that they cannot duly understand the latter without a knowledge of the former. Accordingly the book contains descriptions of human ailments from Abscess to Tapeworm. Each monograph Describes the Symptoms and is followed by Treatment. Supplementary to these concise monographs are: Surgical Hints, Poisoning and Treatment, Surgical and Medical Appliances, a Chapter on Dentistry for Druggists, and one on Sight-Testing. It contains 270 pages, and is published at 3s. net, by post 3s 3d., from the Offices of **"THE CHEMIST & DRUGGIST," 42 CANNON ST., LONDON, E.C.**; or from any of the Wholesale Houses at the published price.

OPENING A PHARMACY.

A good book for those in business, or starting in business. Descriptions of the Opening Orders with other Particulars of Interest to those Starting in Business as Chemists and Druggists, including Commercial and Legal Information. This book has grown from the Opening Order for Drugs and other Contents of the Pharmacy which was actually written by a Pharmacist starting in business. It now comprises the following chapters:—Introductory; Capital Required; Shop-fitting; The Order for Drugs; The Dispensing Department; Supplementary Hints on Shop-fitting; Business Policy and Prices; The Chemist's Books and How to Keep Them; Stock-keeping and Stock-taking; How to take a Lease; Assistants and Apprentices; Trade Marks and Copyright; The Sale of Poisons; Stamped, or Dutiable Medicines; Methylated Spirits; Local Advertising; Income Tax; Weights and Measures. The book has gone to three editions and is a most useful manual for every Chemist's Assistant and every Business Man in Retail Pharmacy. It contains 120 pages. Price 2s. 6d., by post 2s. 9d. To be obtained from the Offices of **"THE C. & D.," 42 CANNON ST., LONDON, E.C.**; or from any of the Wholesale Houses at the published price.

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WILLS' Minor books and notes; cheap. "Inchy," 28 Sydney Street, South Kensington.

DRUGS AND CHEMICALS.

ABOUT 1 lb. hydrastis rhizome, 1 lb. cantharides, 10 lb. assorted aniline dyes; list and quantities on application; 1 lb. pure chloral hydrate. Baxter, Chemist, Bramley, Leeds.

½ oz. atrop. sulphate, 40*s.*; 2 oz. metol, 4*s.*; 1 oz. unopened cocaine hydrochl. (B. W. & Co.), 15*s.*; 2 oz. butyl chloral hydrate, 5*s.*; 8 1-oz. bottles pyrogallic acid (Schering), 1*s.* 3*d.* each. "Pharmacist," 239 Roundhay Road, Leeds.

13 oz. aniline dyes, assorted; 1½ oz. argent. nitras xtal.; 1 oz. sulphonal; ½ lb. ammon. phos. pur.; 2 oz. brucine; ¼ oz. vanillin; 2 oz. thiocarbamide; 2 oz. aurine; 1 oz. argent. citrate; ¾ oz. argent. acetate; what offers? Mason, Norfolk Street, Cambridge.

MANGANESE iron phos., 4 oz.; iron phosphate, 4 oz.; lithii cit., 4 oz.; quinine bisulph., 1 oz.; morph. hydroch., 1 oz. (all Wellcome, unopened); bismuth subgallate, 4 oz.; soloids, biniodide, 500 8.75, 400 1.75; 100 cocaine, ½ (all Wellcome, opened); quin. salicy., 1 oz. (Howard); acid. benz., 1 oz. (Howard); santonin, 1 oz.; urea, 3 oz.; methylene blue, 1 oz.; salol, 4 oz. (all Ferris); mercurol, ʒvj; acetozone (P.D.), ¼ oz. Scott, Chemist, Knowle, Bristol.

OPTICAL AND PHOTOGRAPHIC.

KODAK Commercial developing tank, brand new, 36*s.*; Butcher's Turbine print-washer, new, 10*s.*; Thornton-Pickard ruby reflex, 5 by 4, with anastigmat, 6.8, 6 double slides, case, second-hand, list price £16 16*s.*, a bargain £6; above are offered for cash or in exchange for good saleable stock. Braid, Chemist, Exmouth.

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O'BRIEN'S check till; receipt-issuing, coin exhibitor; supply of rolls; cost 10 guineas; Burrage telescopic counter-stand, 3-tier; cost £2 12*s.* 6*d.*; offers. Dix, Pontypool.

MISCELLANEOUS.

SOUTHALL'S Materia Medica "D" collection, 200 specimens, each in separate box; condition as new; cost £2 15*s.*; accept £1. "H.," 89 St. Augustine Road, Southsea.

WANTED.

28 and 56 lb. empty glycerin tins. Black Bull Works, Caledonian Market, N.

MIXING machine for pill mass. Price, etc., to Gelston, Chemist, Basingstoke.

OPTICAL trial case, lenses, etc.; cheap and good. "Dentist," South Hill, Manningtree.

DENTAL Chair.—Wanted, Harvard pump chair. Price and particulars to 202/39, Office of this Paper.

WANTED, Minor books, most recent dates; price. List of books required, Hand, Spa Pharmacy, Cheltenham.

WANTED, a counter from 14 ft. long, with glass cases in front and drawers behind, in good condition. 198/29, Office of this Paper.

WANTED, digitalin amorphous and eucaine lactate in small, unopened bottles as received from wholesale houses. 199/56, Office of this Paper.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, London, S.W.

MIXING pans for soap or grease making, second-hand or new, capacity 1-1½ tons, required. Send particulars, sketching, lowest price to 201/28, Office of this Paper.

Trade-Marks.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with the Registrar of Trade-Marks, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C. The prescribed time is one month from the date of the Journal in which the application has appeared; but the period may be enlarged by the Registrar, if he thinks fit, and upon such terms as he may direct. Formal opposition should not be lodged until after notice has been given by letter to the applicant for registration, so as to afford him an opportunity of withdrawing his mark before the expense of preparing the notice of opposition is incurred. Failing such notice to the applicant, an opponent may not obtain an order for costs.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1915, p. 435.

(*From the "Trade-marks Journal," July 28, 1915.*)

"Hovenite"; for perfumery (48). By R. Hovenden & Sons, Ltd., 29-33 Berners Street, W. 368,235.

Circular device of cross surrounded by words "St. Andrew's Cross" and "Guaranteed Scotch made"; for brushes (50). By British M.M. Brush Co., Ltd., 36 New Street, Paisley. 365,596.

(*From the "Trade-marks Journal," August 4, 1915.*)

"Inventrica" for chemicals (2), and for goods (6, 13, 17, 18, 22, 42, 46, 47, and 50). By A. J. Roach-Cuming, 68 Cowcross Street, E.C. 367,699/709.

"Orminol" and "Parkol"; for chemicals (2). By Parker & Lester, Ltd., 145 Ormside Street, Old Kent Road, S.E. 368,291/2.

"Sonalia"; for pastilles and nasal-catarrh cream (3). By A. Wilson, 32 Regent Street, Blyth, Northumberland. 367,009.

"Arthrilenol"; for chemicals (3). By E. Béjean, 138 Avenue Malakoff, Paris. 367,544.

"Hypoloid" and "Uromine": for medicinal chemicals (3). By Burroughs Wellcome & Co., Snow Hill Buildings, E.C. 367,711 (Associated), 368,177.

"Oscoltamps"; for medicated appliances (3). By Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, E.C. 368,006. (Associated.)

"Dacro"; for bottle filling, stoppering, and washing machines (6). By The Crown Cork Co., Ltd., 71-81 Paul Street, Finsbury, E.C. 367,586.

"Ariel"; for goods (8). By A. W. Gamage, Ltd., 125-128 Holborn, E.C. 366,659.

"Creso"; for cream-of-tartar substitutes (42). By H. Baird & Sons, Ltd., 29 St. Vincent Place, Glasgow. 367,527.

"Glycopepto Yoghourt" on scroll, with jar and seal (seal device disclaimed): for Yoghourt, a beverage (42). By L. G. Martens, 2 Avenue Pictet-de-Rochemont, Geneva. 368,086.

"Oranale"; for alcohol essences (43). By Stevenson & Howell, Ltd., 95A Southwark Street, S.E. 367,811. (Associated.)

evice with words "Sobrite, Ltd.," and little girl standing by spring; for a natural mineral water (44). By Sobrite Ltd., The Sobrite Artesian Spring, near Peterborough. 367,458.

abel with word "Viva" and diamond-shaped device bearing fleur-de-lys and stars; for an aërated beverage (44). By A. J. Caley & Son, Ltd., Chenies Street, W. 368,019. (Associated.)

"Princella"; for toilet-soaps (48). By Wilkie & Soames, Ltd., Greenwich, S.E. 368,022.

"Conutol"; for toilet-preparations (48). By Sangers, 258 Euston Road, N.W. 368,246.

evice of Nelson Column, with words "Filtering Pulp, 'Tip-Top' Brand," and "I. Gundle, 21 Lime Street, London, E.C." ("Tip-Top" disclaimed); for filtering-pulp (50). By I. Gundle, 21 Lime Street, E.C. 367,408.

(*From the "Trade-marks Journal," August 11, 1915.*)

"Metroxide": for all goods (1). By South Metropolitan Gas Co., 709 Old Kent Road, S.E. 368,137. (Associated.)

"Kasofix": for glues (1). By A. W. Walker & Co., 9 Creechurch Lane, E.C. 368,218.

Picture of animals' heads; for veterinary preparations (2). By McDougall Bros., Ltd., 66-68 Port Street, Manchester. 367,197. (Associated.)

"Sanfly"; for an insect-destroyer (2). By F. E. Powell, 18 The Crescent, Chiswick. 367,806.

"Krusol"; for disinfectants (2). By the Standardised Disinfectants Co., Ltd., 26 Billiter Buildings, E.C. 368,336.

"Bactopeptone"; for all goods (3). By May & Baker, Ltd., Church Road, Battersea, S.W. 367,405.

"Sanagen"; for medicinal chemicals (3). By Casein, Ltd., Sheepcote Lane, Battersea, S.W. 367,809. (Associated.)

Circular device, with words "Odds Ox"; for medicinal chemicals (3). By the Australian and Continental Trust Co., Ltd., 4 Tokenhouse Buildings, E.C. 368,136. (Associated.)

"Lecophos": for medicines (3). By W. H. Day, 86 Potternewton Lane, Leeds. 368,176.

"Glutiolin": for medicinal chemicals (3). By Mellin's Food, Ltd., Stafford Street, Peckham, S.E. 368,226.

"Sansleur"; for a tooth-extraction anæsthetic (3). By J. T. Corder, 31 London Street, Norwich. 368,286.

"Autopine"; for medicinal chemicals (3). By W. B. Cartwright, Ltd., Larkfield, Rawdon, near Leeds. 368,314.

"Red Queen," "White Queen," "Blue Queen," "Red Book," "Blue Captain," "White Captain," "Red Captain," "White Herald," "Blue Herald," "Red Herald," "White Book," "Blue Book," for goods (4); "Dromio," for goods (47), perfumery, etc. (48), and for a polish (50). By Lever Bros., Ltd., Port Sunlight, Cheshire. 368,118/129, 368,297/298/310. (Associated.)

Oval device including crossed swords and word "Honour"; for wire brushes (13). By L. N. Mills & Co., 76 Clarendon Road, Holland Park, W. 367,414.

Device including two lions holding shield with word "Lion" over words "The Viking Food and Essence Co.," etc.; for goods (42). By the Viking Food and Essence Co., 12 Brandon Road, King's Cross, N. 364,681. (Associated.)

"White Hart": for a culinary product (42). By F. P. Maxwell & Co., 4 Islington Row, Liverpool. 367,727.

"Kernut": for a cattle-food (42). By R. Townsend & Co., Ltd., Stratford Road, Stroud. 368,003.

Oval device of spring, with words "Olchon Glen Water, St. Thomas' Spring" (wording disclaimed); for natural mineral water (44). By W. Watkins, Alma House, Grosmont, Hereford. 366,303.

"Artaris": for artificial mineral and aërated waters (44). By the Birmingham Syphon Co., Ltd., 21½ Bordesley Street, Birmingham. 366,305.

"Chelsal" and "Chelspa": for mineral and aërated waters (44). By United Chemists' Association, Ltd., Priory Court, London Road, Cheltenham. 368,388/9. (Associated.)

"Redguard"; for goods (47). By Shaw & Co., Ltd., Mountpottinger Road, Belfast. 367,773.

Circular picture of two girls, one with freckles and one without, and word "Metamorphosa"; for a freckle-remover (48). By C. A. Pazdzierski, Gory-Gorki, Mohilew, Russia. 361,547.

"Cameo" over device of cameo medallion; for teeth-preparations (48). By P. H. Galloway, 154-162 Walworth Road, S.E. 367,062/3. (Associated.)

"Peeress"; for perfumery, etc. (48). By the Erasmic Co., Ltd., Bank Quay, Warrington. 368,371. (Associated.)

"Venadon"; for all goods (48). By A. Ewing, 138 Stobcross Street, Glasgow. 368,381.

(*From the "Trade-marks Journal," August 18, 1915.*)

"Grove Glue"; for glue (1). By The Grove Chemical Co., Ltd., Appleby Bridge, near Wigan. 367,804. (Associated.)

"Phœnix Brand"; for tartaric acid (1). By The Phœnix Chemical Co., Ltd., Broad Sanctuary Chambers, Tothill Street, Westminster. 368,161. (Associated.)

"Three Heads Brand"; for veterinary preparations (2). By McDougall Bros., Ltd., 66-68 Port Street, Manchester. 367,198. (Associated.)

"Kilablak"; for insecticides (2). "Golden Fortune"; for fats and oils (42). By Haslam, Bailey & Tidswell, 82 Corporation Street, Manchester. 367,685, 367,505.

"Molly"; for all goods (2, 47, and 48). By J. Hargreaves & Son, Ltd., 81 Binns Road, Edge Lane, Liverpool. 368,301/2/3. (Associated.)

"Antico"; for medicines (3). By W. H. Day, 86 Potternewton Lane, Leeds. 368,175. (Associated.)

"Likora"; for a medicated pine tablet (3). By W. B. Cartwright, Ltd., Larkfield, Rawdon, near Leeds. 368,315.

"Sanettes"; for non-medicated catamenial pads or bandages (11). By Seabury & Johnson, 314 Glenwood Avenue, East Orange, New Jersey. 367,741.

"Cassio"; for photographic paper (39). By Baryta, Ltd., Pinners Hall, Austin Friars, E.C. 368,188.

"Amaizu"; for cattle-foods (42). By John Thompson & Sons, Ltd., Gamble Street, Belfast. 368,234.

"Inkmova," over circular device of scales, etc. ("Inkmova" disclaimed); for a preparation for cleaning printers' blankets (47). By the North British Rubber Co., Ltd., Fountainbridge, Edinburgh. 364,844.

"Hand Soap," over device of woman with stick and words "Chases dirt"; for hand soap (47 and 48). By the Cudahy Packing Co., 111 West Monroe Street, Chicago, U.S.A. 367,242/3. (Associated.)

"Hnithetsaya"; for perfumery, etc. (48). By H. Rigaud, 8 Rue Vivienne, Paris. 362,282. (Associated.)

"Nucro"; for all goods (48). By Nugro Manufacturing Co., 67 High Street, Belfast. 363,024.

"Orné de Perles"; for a nail-polish (48). By C. Riddick, 9 Grand Parade, Epsom. 368,330.

"Maygravia"; for perfumery (48). By Timothy White Co., Ltd., 30 Chandos Street, Portsmouth. 368,345.

"Nodorite"; for a toilet-powder (48). By J. Kirby, 120 Victoria Street, London, S.W. 368,414.

"Buffalo," with picture of same; for perfumery, etc. (48). By G. W. Goodwin & Son, Ordsall Lane Soapworks, Manchester. 368,514.

"Vermelli"; for soap (48). By Dr. Jaeger's Sanitary Woollen System Co., Ltd., 95 Milton Street, London, E.C. 368,518.

Gazette.

Partnerships Dissolved.

Falconar, W. E., and Abraham, E. S., 192 and 264 Gloucester Terrace, Hyde Park, London, medical practitioners, under the style of Drs. Falconar and Abraham.

Twietmeyer, C. J., Courtin, L., and Warner, H. G., 8 Harp Lane, London, E.C., drug and chemical merchants, under the style of Domeier & Co.; so far as concerns C. J. Twietmeyer.

Bankruptcy Acts.

Receiving Order.

Aston, W., Corbett House, Droitwich, Doctor of Medicine.

Joint Stock Companies.

Notice is given in the "London Gazette," August 17, that at the expiration of three months from that date the names of the following companies will, unless cause is shown to the contrary, be struck off the Register and the companies will be dissolved: Barium Compounds, Ltd.; Homer Earphone Co., Ltd.; Hygienic Treatments, Ltd.; Warbreck Pharmacy, Ltd.

Will.

Sir Arthur Herbert Church, D.Sc., F.R.S., Shelsey, Kew Gardens, Surrey, who died on May 31, left estate valued for probate at 12,267*l.* 19*s.* 8*d.* Among the bequests is his reversionary interest in forty-three 20*l.* shares in the London County and Westminster Bank, Ltd., to the Royal Society, with the request that when this interest falls into possession the President and Council will apply the income thereof for any purpose or purposes connected with the preservation or utilisation of the archives of that Society. To the Waynflete Professor of Mineralogy in the University of Oxford, 100*l.* for the purchase of apparatus and mineral specimens, and he left to him also his microscope and accessories, all other his optical instruments and mineral specimens (except cut precious stones), platinum vessels, and all other his chemical apparatus; 100*l.* to the Curators of the Ashmolean Museum; 50*l.* each to T. E. James, Clerk to the Royal Society, and Arthur H. White, Assistant Librarian to the Royal Society. To Sir William Turner Thiselton-Dyer, K.C.M.G., as a slight remembrance, some piece of antique silver as may be selected. Works of art are bequeathed to various public museums, those to the Ashmolean Museum including "an Italian orange majolica drug-pot."

Minor Experiences.

R. W. B. (65/5) received notice to attend at 4 Duke Street Lane, Edinburgh, and, along with about forty others, signed his name in the register. His first subject was Practical Chemistry, where he found the salt given for analysis to contain zinc, magnesium, sulphate, and oxide. The volumetric exercise consisted of the determination of a solution of ammonia. The work presented no difficulty.

In Dispensing, in the afternoon, the following paper was set:

Make five belladonna suppositories.

Make ʒvj. syr. ferri phosph., B.P.

Hyd. perchlor.	gr. ¼
Glycerini	ʒiss.
Aquam ad	℥ss.

Sig.: The throat-paint.

Copaibæ	℥ss.
Tr. hyoscyami	♏iij
Spt. æth. nit.	ʒij.
Acaciæ	q.s.
Aq. chloroformi ad	ʒvj.

Sig.: ʒss. t.d.s. ex lacte.

Send ʒvj. of a 5-per-cent. solution of carbolic acid.

Notice to attend for the oral arrived the next day, and "R. W. B.," with twelve others, duly presented himself at the time appointed.

Chemistry with Dr. Dobbin came first, when the following questions were asked: What is a clinical thermometer? Its uses? What is the normal temperature of the body? Difference between Centigrade and Fahrenheit scales? Convert 80° C. into ° F. Crude sulphur shown. What is it? Where found? What is the product when sulphur is burnt in air? Formula of sulphur dioxide? What other oxides of sulphur are there? How found? What happens when SO_3 is passed into water? Action of H_2SO_4 on zinc? A few questions on the first day's work concluded this subject.

Pharmacy.—State all you know about codeina. What is ferrum redactum? How prepared? Linimentum belladonnæ shown. How prepared? Alkaloidal strength? How is ext. belladonnæ liq. assayed? How are the official juices prepared? Define elutriation. Percolation. What classes of B.P. preparations are generally prepared by percolation? How is tinct. opii prepared?

Prescription-reading with Mr. Gilmour followed. The following prescription was given to translate into Latin:

Take of

Iodine	2 grains
Iodide of potass.	4 grains
Oil of peppermint	4 minims
Glycerin to	½ fl. oz.

Label: The throat-paint to be painted on the back of the throat twice a day.

The quantities for the following prescription were required:

Zinci sulph.	4.0
Atropinæ sulph.	0.2
Aquam ad	100

Send 35 c.c.

Next came several prescriptions to read, with detection of overdoses. Then several doses were asked, including the following: Tr. nucis vomicæ, tr. belladonnæ, tr. opii ammoniata, picrotoxin, ferri arsenias, potassii bichromas, phenazonum, salol, phenacetinum, acid. arseniosi, tr. cocci, strychnina, liq. arsenicalis, liq. atropinæ, etc.

Botany came next. Required to draw a T.S. root of *Acorus Calamus* from a slide, name the different parts, and state their uses. Is a daffodil a member of the *Liliaceæ*? In what respects does it differ from the members of that order? Given a fig. What is it? *Daphne Mezereon*, *Daphne Laureola*, and *Juniperus communis* given for recognition. Difference between gymnosperms and angiosperms? What is a corm?

Materia Medica was the last subject. Here Mr. Crombie required the candidate to recognise belladonna-leaves, stramonium-leaves, and belladonna-root. What is the percentage of alkaloids in the latter? Difference between digitalis-leaves and primrose-leaves? Podophyllum-rhizome: percentage resin? Cannabis sativa: percentage resin?

In a few minutes "R. W. B." received the Chairman's congratulations. He says he found the examiners perfectly fair, and he found nothing to be afraid of in the examination.

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THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is the leading journal addressing the Chemical, Drug and allied trades in the British Empire and other countries in the Old and New Worlds. It has a larger paid subscription circulation than any other Drug Trade Journal, and is the official organ of nineteen Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

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Summary of Leading Matters.

As a new side-line for chemists a contributor suggests the cultivation and sale of mushrooms (p. 51).

The tabulation of formulæ for misturæ from Insurance-dispensing Pharmacopœias continues the series begun some time ago (p. 47).

The article on botany for minor students (p. 42) continues the series begun in 1914. The present one deals with the hemlock water dropwort as a type of the *Umbelliferæ*.

We publish more notes on inventions which have become public property (p. 50), and in this connection may be mentioned the short list of some enemy-owned patents which are still in force in this country (p. 49).

"Xrayser II." refers to the suggestion that ivy or ground ivy are poisonous when eaten by cattle (p. 43). A correspondent thinks that *Petroselinum segetum* may be the cattle-poison referred to in a previous letter (p. 58).

Business continues fairly active in chemicals and drugs, with price-changes mostly favouring sellers. Quinine has been active at advancing rates. Hydroquinone, potashes, arsenic, and sandalwood oil are dearer. Lemon oil, E.I. ipecacuanha, cream of tartar, and citric acid are more or less cheaper (p. 54).

The editorial articles in this issue (pp. 44-47) deal with the special legislation which has been caused by the war and with the question of war-service badges. In regard to Poor-law dispensing, we suggest that there is an opportunity of obtaining this for chemists. What is an "entire drug" is another matter which may come before the High Court for a decision as the result of a prosecution at the Mansion House (p. 40).

European War.

A Year Ago To-day.

(*War News in "C. & D.," August 22, 1914.*)

The scarcity of fine chemicals which was anticipated in the previous number resulted in the issue of a list of drugs by the Insurance Commissioners upon which special modifications of the Drug Tariff charges would be permitted. The Government announcement was printed inaugurating the campaign for recovering for this country trade lost to Germany, and there were given opinions by various people as to why the industry in fine chemicals had passed into the hands of the Germans. The text was printed of the Patents, Designs, and Trade-marks (Temporary Rules) Act, which was designed to give the Board of Trade power to avoid or suspend or grant licences to work patents belonging to alien enemies and to avoid or suspend registered trade-marks. The Postponement of Payments Proclamation was also printed. We gave details of the manufacture of salicylic acid, acetylsalicylic acid, and salol.

Pharmaceutical Roll of Honour.

Non sibi sed patriæ.—Cicero.

Forty-eighth List.

Ashfield, Eric N. (son of Mr. Percy Ashfield, chemist, Rhyl), Naval Air Service.

Gosling, Private — (lately apprentice with Mr. T. Wilson, chemist, Stowmarket), R.A.M.C.

Johnston, Dr. W. Vincent, Ph.C., Medical Hall, Ranelagh, temporary lieutenant R.A.M.C.

McVeigh, Second-Lieutenant W. J., chemist's assistant, Bangor, co. Down, Munster Fusiliers.

Rayner, Trooper T. W. (lately apprentice with Mr. T. Wilson, chemist, Stowmarket), 3/2nd City of London Yeomanry (Westminster Dragoons).

Robinson, Sergeant Edward, chemist and druggist (lately with Southall Bros. & Barclay, Birmingham), South Midland Division, R.A.M.C. (T.).

Tookey, Quartermaster and Hon. Lieutenant F. E. F., 3/5th Battalion Hampshire Regiment. Mr. Tookey is the son of Mr. E. J. Tookey, chemist and druggist, who recently left Nottingham to take up the position of senior chemist with the County Chemical Co., Bradford Street, Birmingham, of which Mr. Wilfrid Hill is managing director. Mr. Tookey is at present almost entirely employed on war work.

Mr. Geoffrey Dakin, director of Dakin Bros., Ltd., and his brother, Mr. John Dakin, have been promoted lieutenants in the 13th Battery, Motor Machine Gun Service.

Company Sergeant-Major F. M. Wilson, chemist and druggist, Stowmarket, has been granted a commission in the 3/5th Battalion Suffolk Regiment. He was called up with the 5th Battalion Suffolk Regiment as a sergeant, and was promoted company colour-sergeant in March and company sergeant-major in June. He also obtained a first-class certificate in musketry at Hythe in January.

Scarcity of Drugs in Switzerland.

The "Schweizerische Apotheker Zeitung" publishes a list of articles (I.) the supply of which has failed completely, and (II.) a list of articles that became scarce. These lists are as follows:

I.

Acetone, almond oil, acetanilide, benzol, bromoform, carbolic acid, catechu, cresol and cresol-soap, glucose, glycerophosphates, guttapercha, lanolin and wool-fat, lysoform, naphthalin, paraffin (liquid), salol, saltpetre, soap (hard), sodium thiosulphate, therapogen, toluol, and many German patented chemicals, such as aspirin, heroin, neosalvarsan, the exportation of which is prohibited.

II.

Acetylsalicylic acid, agar-agar, alcohol, alum, ammonium carbonate, amylum oryzæ, anilin and anilin dyes, antimony preparations, antipyrin and its salts, atropin, benzine, bismuth salts, boric acid and borates, bromine preparations, camphor, cantharides, castor oil, ceresine, chloral hydrate, chloroform, cinchona-bark, citric acid, cocaine, codeine, coffeine, collodion, colophony, creosote and derivatives, ether, formaldehyde, formaldehyde-tablets, glycerin, guaiacol preps., hexamethylenetetramine, hydrastis-rhizome, ipecacuanha-root, iodoform, iodine preparations, lithium salts, liquorice-root, liquorice-juice, mercury and mercurials, methylsulphonal, methylsalicylate, morphine, nitric acid, nickel salts, olive oil, phenacetine, phosphorus, potassium cyanide, potassium bitartrate, potassium and antimony tartrate, rhubarb-root, salicylates, silver nitrate, sesame oil, senega-root, strychnine, sulphonal, sulphur, turpentine oil, theobromine and salts, thymol, vaselin, xylol, zinc oxide.

Notices as to Exports of Chemicals, etc.

Austria-Hungary.—The following articles have been added to the list of prohibited exports, according to a decree dated July 31, 1915: Alum and aluminium salts, aloes, boric acid and borates, camphor, cascara sagrada and its preparations, cinchona-bark, digitalis-leaves and preparations thereof, such as diginuratum, digalen, etc.; eserine and salts, compounds and preparations; eucaine, novocaine and tropacocaine; guaiacol and salts, compounds and preparations; caffeine and its salts, compounds and preparations; creosote and its salts, compounds and preparations; magnesium salts, mixtures for narcosis (such as Schleich's and the like), Peru balsam, perugen, hydrastis-root and its preparations, ointments and pastes prepared with the aid of animal, vegetable, and mineral fats; salvarsan and neo-salvarsan, scopolamine (hyoscine) and its salts, senega-root, senna-leaves, silver compounds, organic and inorganic, and preparations thereof, suprarenine, paranephrene, adrenalin and their preparations and compounds, trional, purified wool-fat (lanoline), and zinc salts.

France.—War Bulletin (No. 44) of the British Chamber of Commerce in Paris contains a list of prohibited exports from France, also a list of articles which may be exported to the United Kingdom, the British Dominions, Colonies, and Protectorates (including Egypt), the uninvaded territory of Belgium, Japan, Montenegro, Russia, Serbia, and the United States. Among the articles which may be exported are acetone, alumina, anhydrous and hydrated, and salts of alumina, cinchona-bark, calcium carbide, casein, lanoline, potato, maize, and other starches, oleaginous fruits and seeds, glycerin, mercury ore and metal, vegetable oils other than castor and pulghera oils, olein, paraffin wax, hydrogen peroxide, phosphorus, phosphates of lime, extracts of quinine, sulphur, and pyrites.

Germany.—According to a decree of July the exportation of the following articles from Germany is prohibited: Benzyl chloride, benzal chloride, benzaldehyde, anisaldehyde (aubépine), vanillin, bromo-styrol, methyl salicylate, and sodium perborate. As to the prohibition of exportation of benzyl-derivatives (noted in the decrees of June 24 and July 16), this will henceforth only include the benzyl-products that are used in dye-manufacture and those mentioned above.

India.—The "Indian Trade Journal" for July 16 contains a notice to the effect that the Government of India have decided to prohibit the export of all goods to Holland. Licences will, however, generally be granted on application for export of any goods consigned to the Netherlands Oversea Trust within the limits of normal export to Holland.

Roumania.—The Ministry of the Finances has issued a statement that the exportation of petroleum and of the heavy oils is no longer prohibited, and that these oils can henceforth be effected by Predeal, Palanka, and Burdujieni. All the Roumanian wagons loaded with oils or petroleum will be subjected from the time of their loading to the movement of their passage to the frontier points to the most rigorous control.

United Kingdom.—An Order in Council published in a supplement to the "London Gazette" of Friday, August 13, declares that the heading "Mercury" in the list of goods, the exportation of which is prohibited to all destinations abroad other than British Possessions and Protectorates, should be deleted, and that the exportation of "mercury" should be prohibited to all destinations. That the heading "Mercury, Salts, and Preparations of (other than Nitrate of Mercury)" in the list of goods, the exportation of which is prohibited to all destinations abroad other than British Possessions and Protectorates, should be deleted, and there be substituted therefor the heading "Mercury, Compounds and Preparations of (other than Nitrate of Mercury)." That the exportation of the following goods is prohibited to all destinations abroad other than British Possessions and Protectorates: Caustic soda; sodium. That the exportation of the following goods is prohibited to all foreign countries in Europe and on the Mediterranean and Black Seas, other than France, Russia (except through Baltic ports), Italy, Spain, and Portugal: Acetic acid; antimony, compounds of, except sulphides and oxides of antimony (the exportation of which is prohibited to all destinations abroad other than British Possessions and Protectorates); copper, compounds of, except copper nitrate (the exportation of which is prohibited to all destinations), and copper iodide, copper sulphate, and suboxide of copper (the exportation of which is prohibited to all destinations abroad other than British Possessions and Protectorates); sodium cyanide; sodium sulphide.

Personalia.

Mr. Richard Arnold Clarke, engine-room artificer, R.N.V.R. (Clyde Division), younger son of Mr. R. Feaver Clarke, Ph.C., Gravesend, was one of the survivors of the disaster to H.M.S *India*, which was sunk by a German submarine in the North Sea on August 8. Mr. Clarke's elder son, Second-Lieutenant Wilfrid Clarke, is serving with the 96th Brigade R.F.A., and expects to go to the Front shortly.

Miscellaneous.

Cotton as Contraband.—It is officially announced in the United States that Great Britain and France have decided to declare cotton contraband.

Helping the Wounded.—Holiday & Co., manufacturing chemists, City Mills, Durham, send us a photograph of their light delivery van being employed for taking wounded soldiers out into the country for health rides. The van is an Armstrong-Whitworth, and the wounded soldiers are accommodated on deck chairs.

Benzine Floor-polish.—It is reported from Copenhagen that a consignment of floor-polish for Germany appeared to the Custom-house officials of Vamdrup to have too strong an odour of benzine. On a sample being submitted to chemical analysis it was found it consisted mainly of benzine, the exportation of which is prohibited. The senders have been arrested.

Second Nature.—Writing from "somewhere in France," a chemist's assistant states: "We are supplied with sod. bisulph. tablets for sterilising water, and they are very useful. Most of the water served out from water-carts tastes of chloride of lime, and I really believe that if in future I have to drink water without that flavour I shall have doubts as to its purity."

"Boots' Comrades in Khaki."—The August issue of this periodical opens with a greeting from Lady Boot. This is followed by a number of accounts of life on active service contributed by various comrades in khaki and several other topical articles. Portraits are given of a number of men from Boots who are serving with the Colours, including Second-Lieutenant A. E. Phelan, Ph.C., who three months ago obtained a commission in the Northumberland Fusiliers. There are fifty-seven additions to the Roll of Honour, which on June 15 showed a total of 1,272.

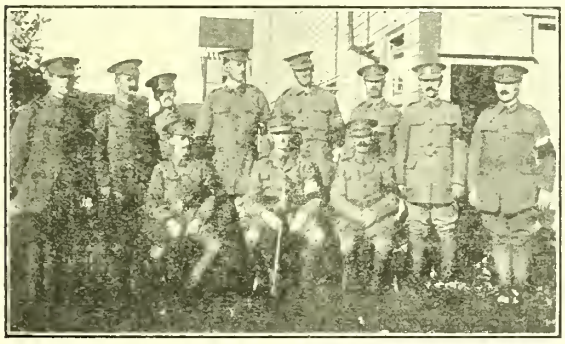
Liverpool Pharmacists' Training Corps.—A movement is on foot to form a Liverpool Pharmacists' Training Corps. Preliminary work has been done by Mr. J. L. Hirst. It is proposed to proceed on the lines of the London Pharmacists' Training Corps, and arrangements will shortly be made for drill instruction and for lectures in first aid, hygiene, sanitation, water-analysis, care of hospital stores, etc. An opportunity will be taken at an early meeting of the Liverpool Chemists' Association to explain the aims and objects of the Corps, and also to enrol members. The only essential condition will be that all members must be qualified pharmacists. Those desiring to join now should send in their names to Mr. J. L. Hirst, 26 London Road, Liverpool.

New Lighting Order in London.—A new order as to lighting in London has been issued by the Metropolitan and City police authorities, and came into operation on August 14. All the provisions of the previous orders as to reduced lighting are retained, and the hours affected are: From 8.30 P.M. till sunrise during the month of August; from 7.30 P.M. till sunrise during the month of September; from 6 P.M. till sunrise during the month of October and until further notice. One new provision is that the lighting-up hour for all vehicles is changed. Instead of the front and rear lamps being lighted, as hitherto, at one hour after sunset, lamps must now be lit half an hour after sunset, and all vehicles travelling in the public streets must continue to show their lights until half an hour before sunrise.

Pharmacists in Turkey.—The Ottoman Government has issued an Order compelling all pharmacists in Turkey to employ hereafter only the Turkish language. This applies not only to prescriptions, but also to labels of contents and directions on all containers of medicines put up by them. In a report from Constantinople *viâ* New York this Order is described as the latest step taken by the Young Turks in their campaign to root out from the Turkish Empire, not only all trace of, but all dependence on, European civilisation. The signs and advertisements on all stores in foreign languages have already been abolished, as well as the use of the French language in the postal and telegraph services of the country. It is stated that practically every pharmacist and drug-store keeper in the city is a foreigner, and they know little, if any, Turkish. The requirement that

all labels of contents, directions, and other information must be written in Turkish constitutes for two-thirds of the foreign population an insurmountable barrier. The danger, both of the pharmacist becoming confused in an effort to prepare prescriptions written in Turkish, and later of the patient mistaking the directions, is so great that hardly a pharmacist in the city is daring to put up even simple prescriptions.

Portsmouth Volunteer Training Corps.—We have referred to the establishment of this Corps in previous issues of The Chemist and Druggist, and noted some time ago the formation and equipment of an Ambulance Section. Mr. A. B. Sparrow, Secretary of the Portsmouth Pharmacists' Association, to whose energy the Corps owes so much, has



written an account of the doings of the Ambulance Section at a camp on Farlington Racecourse. He writes: "Having just had a week in camp, the experience of the Ambulance Section of the Corps may be interesting to members of other training corps. The camp was situated on a racecourse, the grand stand being used for sleeping accommodation and mess-rooms. The Ambulance Section was assigned to a good-sized room and well lighted—a room which was generally used for accidents during races, and was in that respect somewhat suitable, being already provided with a bedstead, stretcher, and some splints. The first thing to be done was to scrub it out, which was done a few days before the camp; five of the members, including the doctor, armed with brushes, pails, and cloths, spent a good two hours at the job, and it well repaid our energies. Being the only pharmacist in the Ambulance Section, I was deputed to see that the ambulance-room was fitted with the necessary equipment. One of our members fortunately had two glass showcases in good condition which had originally come from a pharmacy. One of these was fitted up with stoppered bottles, filled with sal volatile, tinct. iodi, glycerin, ammonia, etc., and pint bottles filled with boracic, carbolic, and lead lotions, embrocation, white mixture, and rhubarb mixture, each bottle being labelled with instructions for use. The other case was used for measures, funnels, eye-bath and gauzes, 'soloids,' etc., and an inhaler and bronchitis-kettle found a place on the top. The table was covered with white American cloth, and on it, at the back, were piled up the stores of wool, lints, Gamgee tissue, and bandages. The front part was laid out with all emergency requirements, such as 'vaporole' ammonia and iodine, a lotion-bowl containing the dressing-instruments in carbolic solution, aspirin tablets, etc., not forgetting the R.A.M.C. drill-book, 'First Aid to Injured,' and a note-book in which to record all cases. The bareness of the walls was relieved by means of ambulance diagrams, first-aid charts, optical charts, one of which, the 'Punch' chart, was explained to patients as a test for sobriety. The distilled-water supply was contained in a 3-gal. stone jar fitted with tap. The store box from our depôt was brought up and placed in the corner, and, with a pile of stretchers, made the room look quite smart. The appearance was favourably commented upon by the 'fighting' members of the Corps. During the week seventy-six cases were recorded for treatment, these comprising chiefly minor casualties, such as sprains, cuts, eye-troubles due to sleeping on draughty floors, poisoned arms from stings (requiring hot fomentation, for which a spirit-kettle and stove were always ready), many headaches, blistered hands and feet, etc." The photograph given above shows the Ambulance Staff with the medical officer (Dr. R. J. Lytle). It was taken by Mr. Sparrow on the first day in camp. Mr. Sparrow in his account also gives details of the organisation of the Corps.

Tinct. Lavand. Co. is very successful in disguising the taste of valerian, to which drug patients otherwise are very ready to object.—*Medical Press and Circular.*

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Government Contracts.

The following new Government contracts have been notified:

Crown Agents for the Colonies.—*Quinine*: Howards & Sons, Ltd.

H.M. Stationery Office.—*Printing, etc.*: 20,000 copies poster Royal Arms, War Loan, Spottiswoode & Co., Ltd.

India Office: Store Department.—*Cresol*: Jeyes' Sanitary Compounds. *Ferri et Ammon. Citras*: Howards & Sons. *Surgical Instruments*: J. Weiss & Sons; Down Bros., Ltd.; J. H. Montague; Arnold & Sons. *Lints*: Robinson & Sons.

War Office.—*Bisulphate of Soda Tablets, etc.*: Boots' Pure Drug Co., Ltd.; Hopkin & Williams, Ltd.; Saccharin Corporation, Ltd. *Bisulphate of Soda Tablets* (term contract): W. B. Cartwright, Ltd.; Johnson & Sons, Manufacturing Chemists, Ltd.; H. & T. Kirby & Co., Ltd.; Reynolds & Branson, Ltd. *Brushes*: J. Avons & Sons, Ltd.; R. Benson & Sons, Ltd.; L. Bradshaw; Chadwick & Shapcott, Ltd.; Robert Chase & Son; W. Cleghorn & Son; Crowden & Garrod, Ltd.; W. Francis & Sons; E. A. & W. Greenslade; Hawley & Smith; David Hayward, Ltd.; Hindes, Ltd.; Charles Hoyland & Sons, Ltd.; G. B. Kent & Sons, Ltd.; C. H. Leng & Sons; H. S. Lythgoe; A. Martin & Son; John Mason & Sons; Newton & Cook; C. H. Osborne; Alexander Reid & Son; Rigby Battcock, Ltd.; South London Brush Co., Ltd.; Vale & Bradnack; Isaac S. Varian & Co. *Chloride of Lime*: Electro-bleach and By-products, Ltd.; United Alkali Co., Ltd.; A. C. Young & Co. *Dental Outfits*: Dental Manufacturing Co., Ltd. *Disinfectants*: Celtic Chemical Co.; Jeyes' Sanitary Compound Co., Ltd.; Killgerm Co., Ltd.; McDougall Bros., Ltd.; Newton, Chambers & Co., Ltd.; Pearson's Antiseptic Co., Ltd.; Phœnix Sanitary Co.; W. C. Smithie & Co.; South Metropolitan Gas Co. *Glassware*: Arnold & Sons; Beatson, Clark & Co., Ltd.; H. W. Bush & Co., Ltd.; J. Lang & Sons; T. Webb & Corbett, Ltd. *Glycerin*: Price's Patent Candle Co., Ltd.; C. Thomas & Bros., Ltd. *Medicines*: British Drug Houses, Ltd.; Burgoyne, Burbidges & Co.; Burroughs Wellcome & Co.; A. H. Cox & Co., Ltd.; H. & T. Kirby & Co., Ltd.; May & Baker, Ltd.; Parke, Davies & Co.; J. Richardson & Co., Ltd. *Medicines* (term contract): Burroughs Wellcome & Co. *Clarifying Powder*: Burgoyne, Burbidges & Co. *Hyposulphite of Sodium* (term contract): E. Bramwell & Son, Ltd. *Sterilisers, etc.*: Surgical Manufacturing Co. *Soda, Caustic*: C. Tennant, Sons & Co. Ltd.; United Alkali Co., Ltd. *Surgical Instruments and Materials*: Allen & Hanburys, Ltd.; Arnold & Sons; W. H. Baily & Son, Ltd.; Brookes & Crookes, Ltd.; A. Browne; Burroughs Wellcome & Co.; Carnegie Bros.; F. H. Critchley; Cuxson, Gerrard & Co., Ltd.; Darton Gibbs Co.; Down Bros., Ltd.; Galen Manufacturing Co., Ltd.; Goldschmidt, Schmerl & Co.; Gray & Selby; F. H. Hallam & Son, Ltd.; Philip Harris & Co., Ltd.; J. L. Hatrick & Co., Ltd.; Hawksley & Sons; Geo. Haynes & Co.; Henry Lewis; Liverpool Lint Co.; J. F. Macfarlan & Co.; S. Maw, Son & Sons; Mayer & Meltzer; Medical Supply Association; J. H. Montague; Southall Bros. & Barclay, Ltd.; Stair & Andrew, Ltd.; Surgical Manufacturing Co.; J. Timpson & Co., Ltd.; Vernon & Co., Ltd.; J. & L. Ward; J. Weiss & Sons, Ltd. *Surgical Materials and Repairs* (term contract): Boileau & Boyd, Ltd.

Birmingham.

As the mushroom season is at hand, the "Birmingham Daily Mail" mentions the French antidote for the poisonous varieties. It is to swallow every ten minutes a teaspoonful of finely powdered animal charcoal mixed with pure water. Pharmacists should note this.

Mr. Alfred Bird, M.P., addressed a workers' meeting on August 17 in St. Paul's Square, Birmingham, and urged all workers to give of their best in the present critical time. Mr. Wilfrid Hill, through the Press and by speeches, is "doing his bit" in the same direction.

Dr. W. B. Davidson, who has been appointed chemical engineer to British Dyes, Ltd., is well known in Birmingham, particularly to pharmacy students, as he was often to be seen at the Technical School, Suffolk Street, during the winter session, acting as deputy for the Principal (Dr. Price).

Wounded soldiers passing through the various Birmingham stations on their way to the military hospitals in the different parts of the country are provided with

refreshments and comforts by a number of local ladies during the short stay of the hospital-trains. The wives and daughters of several prominent pharmacists belong to this band of workers. They are members of the Voluntary Aid Corps of the St. John Ambulance Association.

Sheffield.

Miss Medley, daughter of Mr. Fred. Medley, chemist and druggist, Barnsley Road, and Page Hall, has passed the examination of the Conjoint Board of Music.

Mr. G. T. W. Newsholme, Ph.C., F.C.S., is taking up his public and private duties again, after a long illness. Although not up to concert-pitch, Mr. Newsholme is gradually gaining strength.

Mr. Bernard Lancaster, chemist and druggist, prescription checker to the Insurance Committee, who has recently undergone an operation in a local nursing home, is progressing as favourably as could be expected.

Miscellaneous.

Wine-licence Transferred.—The medicated-wine licence attached to the business of Mr. C. Paine, chemist and druggist, Market Place, Westbury, Wilts, has been transferred to Mr. E. A. Chard, chemist and druggist, Bristol.

Pharmacists' Volunteer Training Corps.—A drill will take place in the Courtyard of the Prudential Company's Buildings at High Holborn, London, on Sunday, August 22, at 10 A.M. The entrance is in Brook Street on the west side of the building.

Embezzlement Charge.—At Holt, Norfolk, last week, Henry Ernest Cottell was committed for trial at the Quarter Sessions on a charge of embezzling 13*l.* 17*s.* 6*d.*, the money of his employer, George William Fisher, chemist and druggist, Melton Constable, Norfolk.

British Association.—At the Manchester meeting of the British Association from September 7 to 11 Professor W. A. Bone, F.R.S., will take the place of Professor H. B. Baker, F.R.S., as President of the Chemical Section. Professor Baker is unavoidably prevented from attending the meeting.

Petty Thefts.—Two lads were ordered to be birched at Penzance on August 9 for stealing 17*s.* 6*d.* from the till in the pharmacy of Mr. E. A. Tillman, chemist and druggist, Causewayhead, Penzance, on August 6, during the temporary absence of the owner. Fifteen shillings and sevenpence of the money was recovered.

Bright Lights.—At Chester-le-Street, co. Durham, on August 11, Mr. Thomas F. Newton, chemist and druggist, 34 Front Street, Chester-le-Street, was fined 7*s.* 6*d.* for a breach of the lighting order. Mr. Newton stated that he had provided dark blinds to comply with the order, but on this occasion the gas was lit for a minute only while the blinds were not drawn.

Brunner, Mond & Co., Ltd., on August 14 announced an increased war bonus to shiftmen of 3*d.* per shift, making 5*s.* 7½*d.* per week instead of 3*s.* 9*d.* Day men are to receive overtime for everything above forty-eight hours weekly. Owing to the pressure of work the Winnington and Lostock workmen cannot be given a holiday this year, but each man entitled to holidays will receive a week's pay instead.

Final Dividend.—The creditors of Mr. Frank Hazlitt, chemist and druggist, late of 53 Market Street, Heywood, Lancashire, have received a second and final dividend of 2*s.* 8*d.* in the pound, making in all 12*s.* 8*d.* in the pound. According to a statement prepared by the trustee, the receipts amounted to 243*l.* (including 200*l.* from the sale of the business), and 175*l.* 10*s.* 10*d.* had been paid to creditors (*C. & D.*, April 25, 1914, p. 132).

Prize Essay.—Mr. Reginald Le Neve Foster has given 140*l.* to the Royal Society of Arts with which to found a prize in commemoration of his father, Mr. Peter Le Neve Foster, who was Secretary of the Society from 1853 to 1879. The Council has decided to offer the prize, which will consist of 10*l.* and the Society's silver medal, for a paper on "Zinc: Its Production and Industrial Applications." Papers must be sent in not later than December 31.

Yarmouth Guardians' Drug Contracts.—The chemists supplying medicines in the various districts of Yarmouth were asked by the Guardians, as a matter of economy, whether they would base their charges on the Insurance Tariff rates. The chemists have replied that they are willing to do so, provided the arrangements for supplying bottles and delivery of medicines are also the same as under the Insurance Act. In view of this, the Finance Committee has recommended the Guardians not to alter the existing system.

Theft of Postal Orders.—At Tower Bridge Police Court on August 16, before Mr. Gill, Charles Brown, *alias* E. H. West (20), was remanded on a charge of stealing two postal letters containing postal orders for 12*s.* and 16*s.* respectively, the property of his employers, the National Institute of Sciences, Westminster Bridge Road. The thefts were discovered through complaints being received by the Society from two lady customers in the provinces that remittances had been forwarded and the goods ordered had not been received. Accused admitted defalcations amounting to about 2*l.*

Apprentice's Death.—On August 11 Mr. Walter Schroder held an inquest at the Hampstead Coroner's Court relating to the death of William Stanley Conway, aged eighteen, who was apprenticed to a chemist and druggist at 342 High Road, Brondesbury. He always appeared to enjoy good health, but on August 7 was found dead in bed at his lodgings. Dr. Crosfield, who had made a *post-mortem* examination of the body of the deceased, stated that death was due to syncope owing to fatty degeneration of the heart and disease of the brain. The jury returned a verdict in accordance with the medical evidence.

Suicide of a Chemist.—In Westminster Coroner's Court on August 14, Mr. S. Ingleby Oddie held an inquiry with reference to the death of Second-Lieutenant Randolph Rae Smith (23), Sherwood Foresters, who committed suicide by shooting himself at the Tavistock Hotel, Covent Garden, London, W.C. In evidence, Mr. B. Oliver Smith, Crescent Street, Barrow-in-Furness, said he last saw the deceased, his brother, on June 29, when he was in his usual health. He joined the Army on the outbreak of hostilities, having previously been a chemist and druggist in Montreal. He was not in a normal condition mentally, the result of an accident when he was a child, which caused him to be paralysed down the right side. His mind was affected, and he was eccentric. The jury returned a verdict of suicide while temporarily insane.

Thefts by Boys.—At Doncaster West Riding Police Court on August 17, before Messrs. J. Brocklesby, W. Hinchcliffe, and W. Winstanley, Roger Aspinall (13), Thomas Ramshaw (15), and Harry Hutchinson (14), of New Conisborough, were charged with breaking into a chemist's shop at New Conisborough, belonging to the Denaby Co-operative Society, between July 31 and August 4, and stealing a safety razor, two hair-brushes, and a quantity of other articles, to the value of 35*s.* They pleaded guilty. Norman Burns, chemist and druggist, manager of the shop, said that he locked the premises on July 31, and on re-opening on the following Tuesday, after the holidays, he found it had been ransacked and a quantity of goods missing. All three boys were sent to a reformatory, Aspinall until he reaches the age of eighteen, and the other two until they become nineteen years old.

The Sale of Laudanum. In the course of his annual report, Dr. Whitehouse, medical officer of health for Deptford, refers to the effect of the increase in the strength of laudanum on the law as to the sale of poisons. Regarding the policy advocated by the Council of the Pharmaceutical Society (*C. & D.*, January 9, p. 43), Dr. Whitehouse says that probably the majority of people will ask for what they have been in the habit of using, and if tinctures of both strengths are kept, one will be reserved for the emissary of the local inspector, and the other, with a few words of explanation, will be supplied to the public as before. There is always danger in keeping preparations of different strengths with similar names, and it is to be hoped that this suggested system of meeting the demand for the sale of a remedy which may become a poison if improperly employed, will speedily be rescinded.

Poisoning Cases.—Seven deaths due to poisons have been reported during the week. Two of these were suicidal cases, the poisons involved being carbolic acid and spirit of salt. The other poisons, taken by misadventure, were solution of ammonia, morphine, oil of tar, and two unknown poisons. At an inquest on the body of Elinor Hayman (18) held at Gillingham (Kent) medical evidence was given to the effect that the girl died from the effects of taking on an empty stomach acetanilide, contained in a "Daisy" headache-powder. The inquiry was adjourned for an analysis of the contents of the stomach to be made, and at the adjourned inquest an expert witness stated that an analysis of the contents of the stomach and of the headache-powders, such as the girl took, showed no trace of the drug mentioned at the initial inquiry. The jury returned a verdict of death from the effects of an unknown poison.

The scarcity of pharmaceutical products in Spain, to which reference was made in the *C. & D.* of July 31, is the subject of a note from H.M. Commercial Attaché at Madrid, who sends a list of fine chemicals which were formerly supplied by Germany. For a time after the outbreak of war small lots of drugs continued to come into Spain by parcel-post, but this channel has now been closed.

Irish News.

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Brevities.

Mr. Wm. J. Murphy, Ph.C., Mitchelstown, has been appointed to the Commission of the Peace for Co. Cork.

The Belfast Board of Guardians has asked the Local Government Board to sanction the payment of 40*l.* to Mr. Wm. Stevenson, Ph.C., for services in connection with the treatment of soldiers in the Ulster Division Hospital up to June 30.

At the meeting of the Mountjoy Ward Branch U.I. League, Dublin, Dr. Sherlock, ex-Lord Mayor, who presided, proposed a resolution, which was carried, tendering sincere sympathy in their bereavement to the parents of the late Mr. Michael Caffrey, Ph.C.

A plucky, but unsuccessful, attempt to swim Belfast Lough from Bangor to Kilroot was made on August 13 by Mr. Harry S. Grantham, commercial traveller, representing Allen & Hanburys, Ltd., London. He was in the water about four hours, and was within a quarter-mile of the Antrim coast when a choppy sea set in, and he was obliged to give up the attempt.

Mr. Michael J. Monoghan, R.D., Ballybay, whose appointment as a Justice of the Peace was referred to recently (*C. & D.*, August 7, p. 37), was apprenticed to Fee Bros., Ballybay, and passed the Registered Druggist examination in 1894. He was for several years senior assistant with Jackson & Co., Stephen's Green, Dublin. Mr. Monoghan started in business at Ballybay in 1910.

Scarcity of Salicylates.

In reply to a complaint from the Kilkenny Board of Guardians, Boileau & Boyd, Ltd., Dublin, drug-contractors, have explained that they have sent on a second supply of sodii salicyl. They had only invoiced ½-lb. of it on the previous requisition, as several drugs and chemicals are only obtainable in small quantities, and it is necessary to make the supply go round as far as possible. Owing to the number of contracts held by the firm they are finding it impossible to obtain sufficient to meet all the demands.

Analytical Matters.

Sir Charles Cameron has intimated to the Navan Board of Guardians that he has too much work to permit him to take up the work of analysing drug-samples. It was agreed to appoint Mr. Blake at 6*s.* 6*d.* per sample.

The Coleraine Board of Guardians was specially summoned last week to consider the application of its analyst, Mr. R. F. Blake, Belfast, for an increase of salary, which at present is 15*l.* per annum. After discussion and comparisons with the salaries paid by other Unions, Mr. T. Henry proposed an increase to 20*l.*, but an amendment to fix the salary at 18*l.* was carried by seventeen votes to ten.

The text of correspondence which has passed between the Borrisokane Board of Guardians and Mr. Thorp, drug-analyst to the Union, was made public by the Clerk at the last meeting of the Board. Replying to a letter from Mr. Thorp, dated July 29, the Clerk requested him to return the drug-samples in his possession if he refused to report on them. The Clerk contended that Mr. Thorp's first letter could not be regarded as a definite resignation, and therefore that he is bound to report on the samples referred to. He also stated that Mr. Thorp furnishes about eight reports in the year, working out at the rate of 12*s.* 6*d.* per sample. Mr. Thorp replied that as his fee did not cover expenses he could not continue to contribute to the upkeep of the Union beyond July 30, when he sent in his resignation. The fee for temporary work is half-a-guinea per sample, and he requests payment at this rate before he reports on the samples sent to him. He could not return the samples as requested, as they have already been used in making tests, and he refused to send in his report till payment at the rate mentioned is made. The Clerk said the analyst had them in a hole. It was decided to pay him off and advertise for another analyst.

Scottish News.

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Sphagnum Moss.

The "Daily Mirror" of August 13 gives illustrations of the gathering and sorting of sphagnum moss, for use as war dressings, at Auchmore House, Killin, a collecting-centre having been established there by Mrs. Mackinnon. The moss is gathered by Boy Scouts, and conveyed to the laundry at Auchmore House, where it is picked and sorted by girls. The workers give their services free. The pictures illustrate (1) carrying baskets of moss to the laundry, and (2) girls picking the moss.

Aberdeen and the North.

Mr. T. P. Clarke, chemist and druggist, Grant Street, Cullen, has disposed of his business to Mr. Alexander McK. Gray, chemist and druggist, Glasgow. Mr. Clarke is enlisting in the Royal Engineers.

Miss H. A. Carmichael, daughter of Dr. D. Carmichael, Boddam, who has just finished her apprenticeship as a chemist in Glasgow, has obtained an appointment on the staff of the Central Prescription-checking Bureau in Glasgow.

An interesting bowling match was played at Fraserburgh on August 11. Four chemists issued a challenge to all and sundry, and this was accepted by four grocers. The chemists, who were represented by Messrs. Beaton, Cruickshank, Gall, and Hunter, were beaten by 22 shots to 16. A return match will be played shortly.

Dundee.

A scheme has been adopted in Dundee for the establishment of a dressings depôt to provide surgical dressings for wounded soldiers. Hyndford House has been lent to the Committee, and the work will be carried out there.

Two cases of water-poisoning, similar to miners' diarrhœa, described in the *C. & D.*, August 7 (p. 37), occurred at Crieff last week. Two boys drank water from a stagnant pool, and, unfortunately, their illness proved fatal.

Further evidence of the confidence of the public in the knowledge possessed by chemists is forthcoming daily in the numerous requests made to pharmacists to explain notices sent by the War Office regarding the illnesses and injuries of invalided soldiers. "Try the chemist," is the universal cry.

Edinburgh.

It is stated that some Italian glass-workers have commenced work in the neighbourhood this week.

It is rumoured that Boots Cash Chemists, Ltd., propose closing their shop in Kirkgate, Leith, when the new premises at the foot of Leith Walk are ready for business.

Glasgow and the West.

Mr. James Shields, chemist and druggist, has received an appointment on the staff of the Central Prescription-checking Bureau.

Claims against the late R. J. Owen, chemist and druggist, 183 Duke Street, Glasgow, are to be lodged with Brownlie, Bauchop & Co., 53 Bothwell Street, Glasgow.

Paisley chemists had a boom in business this week, on account of the local holidays. Many holiday makers left the town carrying with them toilet-requisites and home remedies innumerable. Owing to increased work and high wages, the textile workers are spending freely on necessaries.

The Commercial Intelligence Department of the Board of Trade has requested the Glasgow Chamber of Commerce to arrange for an exhibition of upwards of 5,000 samples of German and Austrian goods. The Chamber has arranged for a deputation to visit London to view the exhibits, and if the members of the deputation consider it advisable, arrangements for the exhibition will be made. It is stated that the exhibits will prove of much interest to chemists as well as to other traders and manufacturers.

French News.

(From the "C. & D." Paris Correspondent.)

Pharmacien Analysts.—The question of drinking-water for soldiers in war-time has necessarily always been looked upon as one of vital importance, and the Service of Health of the French Army has decided to devote increased attention to the subject by forming an additional corps of two hundred analysts, whose special business will be to make a rapid examination of the drinking-water destined for the troops. Military pharmacists have been told off for this duty, and they are to receive special instruction on the subject at the Analytical Laboratory of the Prefecture of Police at Paris. The analysts will be supplied with an efficient but handy apparatus necessary for quick work.

Replacing German Synthetics.—The "Union Pharmaceutique" contains an article by Dr. Lyonnet and M. Boulud, pharmacist, of the Lyons hospitals, in regard to substitutes for German pharmaceutical products. It is pointed out that it is necessary to defend French industry from German "enterprise," and one way to do this is to refuse to employ the German trade-names for synthetic chemicals. The problem, state the authors, is not difficult. Reference is made to the list of 250 remedies in the report to the Academy of Medicine by MM. Robin and Bardet, but the present authors consider that a start should be made with thirty of these products most employed. The chemical names or the non-proprietary names, indicated in parentheses, should be used in case of the following: Aristol (dithymol iodide), aspirin (acetylsalicylic acid), collargol (colloidal silver), dermatol (bismuth gallate), dionin (ethyl morphine hydrochloride), diuretin (salicylate of sodium and theobromine), heroin (diacetyl morphine), ichthyol (lithol), neosalvarsan (novarsenobenzol), phenacetin (phenedine), protargol (silver proteinate), salipyrin (antipyrin salicylate), salvarsan (arsenobenzol), sidonal (piperazin quinate), tannigen (acetyl tannin), urotropin (formine). Helmitol, iodipin, lycetol, orthoform, salophen, and somatose are easily replaceable, but for novocaine and xeroform new names require to be coined. As to the hypnotics adalin, sulphonal, trional, and veronal, these can be replaced by chloral with the addition of a little morphine dissolved in red-currant syrup—not a bit inferior to the products from over the Rhine.

A French Military Pharmacist at Waterloo.

Chatting over the war the other day with a friendly French Army pharmacist, a veteran of 1870, still doing useful service at the Parisian Army Headquarters, he happened to mention the name of Antoine Laurent Fée. "Know him? Of course I did!" said my interlocutor. "You know he was professor at the Strasbourg School of Military Medicine until 1870, and I qualified, as you are aware, before the Franco-German War."

It was an interesting "link with the past" thus to be chatting in 1915 with a pupil of Fée, the man who saw Barossa, Vittoria, and Waterloo as an assistant army pharmacist. Fée's book on the Peninsular War is familiar to pharmacists here; but few people, even in France, know that this remarkable man was present at the "King-making victory" of 1815. Fée was a voluminous writer, and in his "Travels Around My Library" he refers to the fact that among his books is a British Army Bible, bearing the name of Joshua Sunderland, an English trooper killed at Waterloo. Fée picked up this man's military papers, as well as his Bible, and deposited the former, he adds, "at the British Embassy, when I returned to Paris." The fact that Henri Houssaye, the French historian of Waterloo, was a grandnephew of Fée, and in childhood an eager listener to his great-uncle's war stories, adds special interest to this passing reference of Fée's to his services in Flanders. I have in vain searched for any record of these services. A French pharmacist's "Waterloo Diary" would, indeed, have been a unique "find," and more especially the journal of one who, like Fée, possessed *par excellence* the pen of a ready writer.

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

Rhodesia.

Roll of Honour.—The following members of Rhodesian chemists' staffs are on active service.

In South Africa.—Mr. E. T. Jones, Mr. Laing, and Mr. Nimmo, of Lennon, Ltd.; Mr. J. C. More and Mr. Healey, of Smart & Copley.

In Europe.—Mr. Blewitt, of Lennon, Ltd.; Mr. Goad and Mr. Travis, of Smart & Copley.

Masonic.—On June 24 Mr. W. Dawn Copley, chemist and druggist, of Smart & Copley, Bulawayo, was installed as Worshipful Master of the Bulawayo Lodge, No. 2566 E.C. There was a large attendance of brethren, despite the fact that many members of the craft are on active service both in South-West and German East Africa, as well as in Europe. Worshipful Brother Copley holds the unique distinction, for the Bulawayo Lodge at any rate, of having occupied the office of Master for more than one term: he was Master during the year 1911-12. No fewer than thirty Past Masters were present to mark the occasion. Mr. Copley is also Third Principal of the Bulawayo Arch Chapter and a founder of the Royal Colonial Institute Chapter, London.

Mr. W. D. Copley.

Transvaal.

The Value of Chemistry.—Dr. C. F. Juritz, at the annual meeting of the South African Association of Analytical Chemists, held at the South African School of Mines, Johannesburg, urged the necessity for inducements being offered for the encouragement and development of branches of chemical technology in the Union. The value of the chemist to the country in respect of various industries is a great one, and this should not be lost sight of. "We should unquestionably gird ourselves," said Dr. Juritz, "to the adoption of an educative policy, for until that is done on well-defined lines we shall achieve little else. To my mind, some of the points in our propaganda should be to urge reciprocity of benefit between the State and the chemical profession; to demonstrate to the public its indebtedness to the industrial chemist; to seek unity of effort as a profession in all our aspirations; to hasten the incorporation of the chemical profession; to enlighten the public especially with regard to food-products and adulteration."

Netherlands Notes.

(From the "C. & D." Correspondent.)

Opium in the Dutch East Indies.—The Excise-duty on opium and the Government opium-manufacture in 1914 yielded 7,632,000fl. more than the estimate, the surplus amounting to 28,800,000fl. The opium-manufactory yielded less revenue than was expected, but the expenses were less.

Dutch Views on Kultur.—Dr. G. van Rijnberk, in the "Tijdschrift," draws unkind comparisons between the scientific achievements of many poorly equipped Italian laboratories and the princely establishments of many "Bier-universities"—a description which has given offence to Germans. In the past Holland has depended mainly upon Germany for medical text-books, instruments, and post-graduate courses of study, but there is a powerful movement afoot in Holland to counteract these Germanic influences, to nationalise Dutch science, and to cultivate greater self-reliance and independence. Holland does not mean to rob herself of the fruits of scientific research elsewhere, but it is her ambition, in addition to fostering science at home, to exchange the one-sided yoke of German *Kultur* for a wider and more international scientific intercourse with all her neighbours. Referring to the value of Germany's scientific achievements as compared with those of her neighbours, Dr. van Rijnberk asserts: "Still to-day the great ideas in science germinate repeatedly in France and England, and even in Italy and the Netherlands, whence they are transported to German soil, where they bloom into the perfect plant ready for export."

German News.

Professor Dr. W. Will has been chosen chairman of directors of the Chemische Fabrik auf Aktien (vormals E. Schering), Berlin.

Professor Dr. Haendel, Director of the Institute for Hygiene and Infectious Diseases in Saarbrücken, has been appointed Director of the "Kaiserliche Gesundheitsamt."

Professor Dr. E. Schmidt has been made doctor-engineer *honoris causâ* by the Brunswick Technical University Carolo Wilhelmina, on the occasion of his seventieth birthday on July 13.

Doling out Sulphur.—The Hageda is now also entrusted with the distribution of sulphur to the German pharmacies. The maximum quantity that can be supplied to a pharmacist without special permission is 25 kilos. monthly.

Rubber Prices.—The Society of German Manufacturers of Rubber Articles decided, at a general meeting held recently, to advance the prices of all rubber articles on account of the high prices of the raw material and labour difficulties in the manufacture.

Spirit-drinking.—In some districts where the military authorities have prohibited the use of spirit for drinking-purposes people are endeavouring to obtain spirit by buying medicinal spirits, such as tincture of cinnamon, spirit of peppermint, etc. The "Apotheker Zeitung" warns its readers against these persons.

The British Pharmacopœia, 1914, is being reviewed in a series of articles in the "Apotheker Zeitung" by Dr. F. Düsterbehn, Heidelberg. The first of these articles appears in the issue of August 11, and contains some general remarks and the beginning of a systematic treatise on the medicaments that have newly been introduced in the Pharmacopœia.

Professor Dr. Magnus, Utrecht (Holland), has been nominated a Professor and Director of the Pharmacological Institute of Halle a/S., as successor of Professor Harnack. Professor Magnus came from Brunswick originally, and had been an assistant of Professor Kühne and Professor Gottlieb at Heidelberg before he was appointed to his position in Utrecht. He has principally occupied himself with the physiology and pharmacology of the intestinal canal.

Student Statistics.—In the winter semester the total number of male students of the eleven technical academies in Germany was 3,294; in the summer semester this number was only 2,226, of whom about 700 are subjects of neutral countries. The number of German technical students is therefore only 1,500. Before the outbreak of war about 9,600 German students were studying in these technical academies, so that about 83.33 per cent. are now in military service.

Bromine Syndicate.—The District Court at Bernberg at the end of July announced the dissolution of the German Bromine Syndicate, with immediate effect. A few days later it was reported that a new company had been formed, under the title of the New German Bromine Convention, with headquarters at Leopoldshall. The constituents of the company are essentially the same as those in the former combination, and the liquidator of the latter is also manager of the new concern.

Teutonic Freedom.—A Berlin Court heard recently the appeal of Professor Oscar Vogt, Director of the Royal Neuro-Biological Institute, against a fine of 30*s*. imposed upon him by the police for causing a disturbance in the following circumstances. He was walking with his wife, who is French by birth, and his children's Swiss governess, when he was hailed by a Lutheran pastor named Kettner, who asked why he did not speak German. The professor and the pastor exchanged a good deal of abusive language, and were ultimately separated by a policeman. The Court reduced the fine to 10*s*. on the ground that only an assault had been proved. It was laid down that the use of the French language in the streets must be permitted, if only out of consideration for neutral visitors, but that it is not permissible to speak enemy languages loudly.

"Deutsche Arbeit," the society which exists for the promotion of German industry and trade and to combat the preference which many Germans still show for articles of foreign origin, is preparing an exhibition of "German products under foreign colours." It will include (1) articles of German origin which have never left Germany, but which are still known and sold as "foreign" products; (2) articles of German origin which have been sent to foreign countries, where they are treated, then re-imported into Germany, and sold as of foreign origin; (3) products of German origin which have been sent to foreign countries in order to be improved or to receive their "finishing touch"; and (4) products of foreign origin which are brought on the market as if they were made in Germany, and which are manufactured or can be manufactured as well in Germany itself (*e.g.*, English steel pens).

New Industrial Undertakings in Germany.—The trade report of the "Deutsche Bank" states that German science and industry have proved equal to the task of manufacturing from atmospheric nitrogen the nitric acid, nitrates, etc., previously imported, in normal circumstances, in the form of saltpetre at a cost to the country of 180 millions of marks, and now required in Germany in enormous quantities for the manufacture of munitions and for manure. The "Badische Anilinfabriken" has successfully employed a synthetic process for the production of nitrogenous substances from atmospheric nitrogen, and the industries connected with the "Deutsche Bank" employ another process. The experience of the Bavarian nitrogen-works has been made use of, and at present two new nitrogen-works are in operation, one in Middle Germany and one in Upper Silesia. It is expected that the new processes will render these nitrogenous products cheaper.

Austrian News.

Opium-cultivation in Hungary can never be a success, states Dr. L. Terray in the organ of the Austrian Philosophical Society. He arrives at this conclusion because rent and wages are so high that the price of 1 kilo. of Hungarian opium would be about 105k. to 125k., which is much higher than the price at which opium can be bought.

Assistants' Wages.—Since the beginning of the war the Austrian pharmaceutical assistants have continually asked for extra wages on account of the dearness of living. The Wiener Apotheker Hauptgremium decided, however, at its meeting on August 5, that extra wages cannot be paid while the Government does not enable the pharmacists themselves to support their rank by means of a proper tariff.

A New Pharmacy Journal.—At the annual meeting of the Hungarian Pharmaceutical Society the question of producing an official organ of the Society was discussed. Finally the Board was authorised to issue a journal at the time which is judged to be most appropriate. A special Committee of this Society has been studying the scheme by which the "Hageda" in Germany is worked, as the Hungarian pharmacists intend to found a similar institution. At this annual meeting the Committee reported the result of its investigations in Berlin, and the preliminary work is to be put in hand at once.

Reprisals.—The Laryngologists' Society has expunged the name of Sir Felix Semon, the laryngologist, from its list of honorary members In explanation of its action the Committee states that Sir Felix Semon was born in Germany and studied in Vienna and Berlin, yet he wrote a letter to "The Times" expressing detestation of the barbaric methods of the Germans in the war. [Sir Felix Semon, in his letter in "The Times" of May 12, wrote: "The inhuman methods of German warfare have . . . with ever-increasing force induced me to think it would be right for a German by birth to express publicly his detestation of that policy. . . . I beg to say that I emphatically abhor the barbaric methods, one and all, employed by Germany."]

The Arzneitaxe Revision.—A revision of the Austrian Arzneitaxe was issued by the Minister of the Home Department on July 30. For private practice the prices of 312 medicaments mentioned in the Austrian Pharmacopœia have been changed, most of them being higher. The prices of the following articles have been lowered: Extractum opii, flores chamomillæ romanæ, flores chamomillæ vulgaris, fructus carvi, mastic, semen amygdalarum dulc., spiritus vini cognac, syrupus amygdalarum, tinct. opii crocata, tinct. opii simplex. The prices for bottles, ointment pots and boxes, and tin tubes have also been advanced; also articles of guttapercha and Billroth-battist. The price of extractum opii, although cheaper for private practice, has been raised in the Sick Fund Tariff. The Austrian pharmacists are not at all satisfied with these revisions, as the prices are fixed according to the market prices at the beginning of June, which differ considerably from those in July and the present month. With regard to these official price-lists, an Austrian pharmacist suggests, in an article in the "Zeitschrift d. Allg. Oesterr. Apoth. Vereins," that an official decree be promulgated by which nobody can be compelled to sell articles at a lower price than he has paid for them.

Legal Reports.

Trade Law.

Trading with the Enemy.—At the Guildhall, London, on August 17, Thomas Bertram Ledger, of Ledger, Sons & Co., manufacturers, St. Mary Axe, E.C., was fined 250*l.*, with 10*l.* 10*s.* costs, for infringing the Trading with the Enemy Act. Defendant attempted to obtain tin boxes from a German firm with a factory at Frankfort.

Veterinary Surgeons Act. — At Caerphilly on August 10, Illtyd Stewart, Newport (Mon.), was fined 5*l.*, and 5*l.* 5*s.* costs, for using and taking the description of a veterinary surgeon while not registered. Mr. Lyndon Cooper, Newport, on behalf of the Royal College of Veterinary Surgeons, stated that defendant had been practising in Aber, Senghenydd, and Caerphilly as a veterinary surgeon, and on June 1 had, in evidence given by him, stated that he was a veterinary surgeon. Mr. R. Harrison said that defendant had experience in attending to animals, and was not aware that he was doing wrong in stating that he was qualified. He now expressed regret.

Trade-mark Case.—On August 18 Mr. Justice Low, sitting as a vacation judge in the High Courts, heard a motion in the action of Hatmaker *v.* J. Nathan & Co., in which counsel asked, on behalf of the plaintiff, for an interim injunction to restrain the defendants, until the trial of the action, for infringing a trade-mark of plaintiff's. He explained that the defendants, he understood, would give an undertaking until the action was heard. Mr. Hume (for defendants) said he would give the undertaking to keep an account as far as the sale of "Glaxo" was concerned. Counsel for the plaintiffs said he was not sure whether that would meet his case. Eventually counsel said terms had been agreed, the defendants giving an undertaking, and there would be no order, except that the costs would be costs in the cause.

War-workers' Notice.—Four cases were heard by Judge Rentoul, K.C., on August 11 in the City of London Court, in which employers who were executing Government war-contracts sued their late employés for leaving their employment without giving any notice in some cases and after insufficient notice in others. The employers said that the practice was growing rapidly by which workers left to better themselves without any regard to the fact that Government contracts are being carried out and that great inconvenience ensued. One of the employers said there is a prevailing idea among young men and girl employés that if they gave notice on a Monday before 12 o'clock they could leave on the following Saturday. Judge Rentoul said that they could not do that, and it had better be widely known among all workers that a full week's notice must be given. He gave judgment for the employers for a week's wages in lieu of notice, but in the case where one of the defendants was going to enlist in the Army the judgment would not be enforced.

Calomel Ointment.—At the Mansion House Police Court on August 18, before Alderman Sir John Knill, William Owen, chemist and druggist, 39 New Bridge Street, London, E.C., was summoned, under the Sale of Food and Drugs Act, for selling on July 8 a shillingsworth of calomel ointment which was not composed of ingredients in accordance with the demand of the purchaser, being deficient in calomel to the extent of 45 per cent. of the amount that should have been present. Defendant admitted the facts, the purchase being proved by Wm. Hussey May, inspector under the Act. Mr. T. G. Vickery, prosecuting on behalf of the City Corporation, said the calomel strength has been doubled in the new Pharmacopœia; but just as it is necessary for lawyers to know all about law, so chemists must keep their knowledge abreast of the times. Mr. Owen said the new prescription was only published this January, and chemists are usually given some time in which to dispose of their existing stock. There has been very little demand for this ointment. Sir John Knill: You must be very careful in the future, Mr. Owen. I shall now only impose a nominal fine—30*s.*, and 1*l.* 1*s.* costs.

Boric Acid in Cream.—At Marlborough Street Police Court on August 13, before Mr. Mead, the Aërated Bread Co., Ltd., 24 Eastcheap, E.C., were summoned, at the instance of Westminster City Council, for having at their branch, 216 Piccadilly, on June 28, sold cream mixed with 0.34 per cent. by weight of boric acid, equal to 23.8 grains of boric acid per lb. of cream. Mr. Rotton, for the Council, said that the Council had decided, in the absence of a fixed standard, that the limit of boric acid allowed in their district should be 22 grains per lb. of cream. The inspector who purchased the sample stated that the glass in which it was supplied bore a label stating that the cream sold at defendants' establishment does not contain more than 0.05 per cent. of boric acid. Mr. Bousfield, for the defendants, said that, according to the analysis of their analyst, the portion of the sample left with the defendants contained only 9.8 grains per lb. of cream. Mr. Mead suggested that the preservative may not have been properly mixed with the cream, and that this might be a source of danger not hitherto considered. He adjourned the summons *sine die* in order that the third sample might be sent to Somerset House to be analysed.

Medicine-stamp Acts.—At the Justice Room, Mansion House, London, on August 16, Knoll & Co., Ltd., 8 Harp Lane, E.C., and Walter Braun, Straddella Road, Herne Hill, secretary of the company, were summoned, before Sir John Knill, for uttering, vending, and exposing for sale certain medicines or medicaments for the prevention, cure, and relief of diseases and complaints incident to and affecting the human body, without the stamp required by the Medicine-stamp Acts. There were eleven summonses, relating to the following articles: Eugallol, ovaraden, codeine tablets, triferrin, arseno-triferrin, styptol, reneden, thyraden, Euresol hair-tonic, styracol, and tannalbin. Mr. Kerly, K.C., and Mr. Hunter Gray, instructed by Mr. G. B. Ellis, defended. Mr. Dart, solicitor for the prosecution, stated that since these proceedings the secretary of the company (Braun) had been interned in the Isle of Man as an alien enemy, and he proposed, in the circumstances, to withdraw the case against him and to proceed against the company only. Mr. Dart proceeded to explain the Medicine-stamp Acts and, referring to the exemption from stamp-duty of entire drugs, said this does not apply in the present case as the company cannot have served an apprenticeship. The company, though registered as an English company, is a German company pure and simple. It is carried on entirely by Germans. All the directors are Germans with addresses out of England. The allegations against the company are that on specific dates they sold various medicines without having them stamped as required by law. Excise officials visited their premises and made purchases of the articles, and subsequently Mr. Hall, an inspector, saw the secretary, Braun, in reference to the sale of unstamped articles. Braun said he never stamped any of these preparations, but relied upon the exemption extended to drugs vended entire. In this case, however, the drugs were not entire drugs. Mr. Kerly took formal objection to the evidence of what Braun said. Continuing, Mr. Dart said an analysis of the articles purchased showed that they are not single drugs; they are all drugs having something else added to them. For example, in the case of the codeine tablets. These contain over three grains of codeine phosphate, but in addition each tablet has over half its weight of starch and milk-sugar, the presence of which is not disclosed on the label. According to his instructions, this is a very bad case, as the company has stamped nothing at all, and has in this manner been competing unfairly with other firms who stamp their goods in accordance with the Acts. He suggested that, if the Alderman thought the case proved, the maximum penalty should be imposed. Mr. R. G. Fleet, an officer of Customs, proved the purchase from the company of various preparations, all of which, he said, were unstamped and contained recommendations for use in certain diseases. In reply to Mr. Kerly, witness said he did not pretend at the time of making the purchases that he came from a chemist's shop. Mr. D. W. Henson, an officer of Customs, produced a pamphlet and booklet in which the articles in question were advertised. Mr. Kerly: If this selling of unstamped articles is an improper practice, can you say why it was allowed to go on since June 1914? Witness: The facts were before the Board and they gave no instructions. Mr. A. F. Hall, Surveyor of Excise, the next witness, said that when he interviewed Braun, the secretary of the company, Braun said he stamped none of the articles, as they were pure drugs. Did you see any stamped preparations there? No. I asked Braun if he had any stamped preparations, and he said "No." Cross-examined: Witness had not heard of a question as to whether "extracts" had to be stamped. He was not aware that cascara sagrada is recommended in manufacturing chemists' lists or in advertisements in The Chemist and Druggist. Do you not know that there are hundreds of simple extracts sold without stamps and which the Customs have never attempted to get stamped? I cannot say. Mr. Charles Simmonds, B.Sc., F.C.S., Government analyst, of Clement's Inn, with thirty years' experience, gave the result of his analysis of the articles purchased from the defendant company. Ovaraden is an organic extract mixed with starch and milk-sugar. The organic extract alone would be a medicinal drug. It was made up in the form of a tablet. The admixture of starch and water might be for the purpose of holding the drug together. Strictly speaking, the coating of sugar on pills might be against the Statute, but in

practice the Commissioners of Customs did not so regard it. They look upon the sugar coating as a sort of vessel in which the drug is carried just as a bottle may be. Water added to a drug is not regarded as making it other than an entire drug. Mr. Kerly submitted that there was no evidence to support the case for the prosecution, as there had been no holding out of the preparation to the public. The price-list of the company is addressed to chemists and doctors, and as such is not a recommendation of the preparations to the public, which is the essence of the whole case. Mr. Dart said that in the case of Smith *v.* Mason, which had been referred to, the advertisement was a chemist's price-list. Continuing, Mr. Kerly referred to Alpe's "Medicine-stamp Duty," in which it is stated that recommending to the trade is not recommending to the public. Mr. Dart said Alpe's book is not an official book in any way; it was written, he thought, "for the benefit of some trade association." The Clerk said the book has been referred to many a time in the Court, but no opinion has been expressed on it. Mr. Kerly contended that the preparations are entire drugs, as they are mixed with something that has no medical effect. He was dealing with the "ovaraden" summons, and if the decision was against him he should ask for a case to be stated, as he regarded this as a test-case. Dr. F. W. Passmore, called for the defence, said in his opinion neither starch nor milk-sugar affects the medical properties of "ovaraden." Mr. Hammond Jeffery, in the employ of Knoll & Co., was also called to prove that the company's price-list is only distributed to chemists. Sir John Knill said he thought there should be a conviction. He fined the company 5*l.* on the first summons, with five guineas costs, and 5*l.* on each of the ten remaining summonses—60*l.* 5*s.* in all. Mr. Kerly: You will state a case on the question as to what is an entire drug? Sir John: Yes.

Limited Companies.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

A. E. Thomas, Ltd. (P.C.).—Registered August 11. Capital 250*l.*, in 1*l.* shares (100 deferred). Objects: To carry on the business of drug-store proprietors, extractors and adaptors of teeth, photographers, etc. R.O., Station Road, Queen's Ferry, Chester.

Duroglass, Ltd. (P.C.).—Registered August 13. Capital 50,000*l.*, in 1*l.* shares. Objects: To acquire the business of the glass-works erected or in course of erection at Blackhorse Lane, Walthamstow, by Baird & Tatlock (London), Ltd., and to carry on the same and the business of glass manufacturers and dealers, metal-workers, coppersmiths, glass-blowers, manufacturers of enamels, machinery, and glassware, makers, fillers, and sealers of glass bulbs and other receptacles for scientific and other purposes, etc.; also to employ qualified persons to act on the company's behalf as analytical or advising chemists. The first directors are D. H. Baird, T. B. Allan, Dr. M. W. Travers, F.R.S., and F. W. Crailsham. R.O., 14 Cross Street, Hatton Garden, London, E.C.

Barkola Co., Ltd. (P.C.).—Registered on August 12. Capital 1,150*l.*, in 1,000 5 per cent. non-cumulative preference shares of 1*l.* each and 3,000 ordinary shares of 1*s.* each. Objects: To take over the business of patent-medicine vendors carried on by the Old Fort Chemical Co., Ltd., at 27 Buckingham Road, Kingsland, and certain assets in connection therewith, to carry on the said business that of druggists, drysalters, oil and colour men, importers and manufacturers of and dealers in all kinds of medical, pharmaceutical, and household remedies, toilet, dental, and other preparations, and medical and dental appliances, etc., and to enter into an agreement with the said company and G. Mares. The first directors are C. E. Gunn and A. C. Hill. R.O., 1 Dorset Street, Essex Road, London, N.

W. Malden & Co., Ltd. (P.C.).—Capital 4,000*l.*, in 1*l.* shares. Objects: To take over the business carried on at 205 Brompton Road, Kensington, W., as W. Malden & Co., to carry on the business of consulting, analytical, manufacturing, pharmaceutical and general chemists, herbalists and seedsmen, drug merchants and dealers, opticians, compounders, manufacturers, owners and vendors of patent, proprietary, or other medicines and general remedial, alleviative, and restorative preparations in regard to human disease and ailments and for domestic pets and animals, etc., and to adopt an agreement with W. H. Bellamy and C. J. V. Bellamy. The first directors are W. H. Bellamy (permanent director and chairman), C. J. V. Bellamy, and F. A. Bonner. R.O., 205 Brompton Road, Kensington, London, W.

Company News.

J. & J. Cunningham, Ltd., sulphuric-acid manufacturers, 44 Bernard Street, Leith, have declared a dividend of 15 per cent., compared with 2½ per cent. and 5 per cent. for the two preceding financial years. At 43,906*l.*, the profits compare with 6,653*l.* and 15,655*l.* Further, 10,000*l.* is added to reserve, against *nil.* and the balance carried forward is 26,003*l.*, compared with 19,097*l.* and 24,443*l.*

Mortgages and Charges.

Zalo Foods, Ltd.—Charge on company's undertaking and property, present and future, except uncalled capital, dated July 22, to secure 300*l.* Holders: L. Oxford, 15 High Street, Burton-on-Trent, and W. M. Winterton, Walton-on-Trent.

Phœnix Chemical Co., Ltd.—Particulars of 4,000*l.* debentures, created July 27, and secured by trust deed of same date, filed pursuant to Section 93 (3) of the Companies (Consolidation) Act, 1908, the whole amount being now issued. Property charged: The company's property, present and future, including uncalled capital and leasehold hereditaments at Alleytroyds, Church, Lancs. Trustees: G. Heywood and J. Bardsley, 1 Cooper Street, Manchester.

Narcotics for India.

In our issues of September 7, 1912, and December 20, 1913, we gave a list of preparations which may be exempted from the operation of the rules governing the importation of cocaine and its alkaloids into India. Further legislation has been effected by the Government of India, who have decided that only the medicinal preparations containing cocaine and other derivatives of the coca-plant which are specified in the list below shall in future be exempted from Customs and Excise restrictions in the various provinces in India. The principles governing the selection of preparations included in this list, and the conditions which must be satisfied in the case of any medicinal preparation which it may be proposed to add to this list under heads 16, 17, and 18, are as follows:

(1) All preparations to be exempted should contain not more than $\frac{1}{16}$ grain of cocaine hydrochloride, or other derivatives of the coca-plant, per tabloid, trochiscus, pastille, solube, sterule, enule, lamella, or fluid drachm, so intimately blended with other drugs as to render it impossible for such preparations to be used as a source of cocaine.

(2) Every such preparation should be labelled with the manufacturer's name and the amount of cocaine hydrochloride or other derivatives of the coca-plant contained in it.

No modification of the list may in future be made by a local Government or Administration without a previous reference to the Government of India. The exemption referred to in paragraph (1) above will not apply to the import of the preparations mentioned in the list by sea through the post. All these articles will, however, be admissible in future for inland transport by the post.

List of Preparations Containing Cocaine or other Derivatives of Coca to be Exempted from Customs and Excise Restrictions.

1—8. Tonic coca wine (Armbrecht; Hall; Arnold; Army and Navy Co-operative Society; F. Stearns & Co.; Dr. Dubois; Bolivian; Mariani).

9. Coca cordial (Parke, Davis & Co.).

10. Kola compound (Parke, Davis & Co.).

11. Kola cordial (Parke, Davis & Co.).

12. Elixir damiana compound (Dakin Brothers).

13. Ixidama (damiana compound) (Burgoyne, Burbidges & Co.).

14. Mist. hepatica compound (C. J. Hewlett).

15. Pigment cocaine and hydrarg. perchloride.

16. Pastilles, pills, tabloids, or soloids containing cocaine, or other derivatives of coca in admixture with other drugs, the percentage of which would render it impossible for any pastille, pill, tabloid, or soloid to be taken for the effects of cocaine alone, as pill damiana compound (Dakin Brothers); pastilles, tablets, and tabloids of benzoic acid compound (Allen & Hanburys, Ltd.), atropine and cocaine (Burgoyne, Burbidges & Co.), homatropine and cocaine (Burroughs Wellcome & Co.), pilocarpine and cocaine (Parke, Davis & Co.), zinc sulphate and cocaine (Evans Sons Lescher & Webb, Ltd.), chlorate of potash, borax, and cocaine (Burroughs Wellcome & Co.), krameria and cocaine (Parke, Davis & Co.), menthol and cocaine (Burgoyne, Burbidges & Co.), menthol, eucalyptus, and cocaine; menthol, red gum, and cocaine; benzoin and cocaine; throat mentholated (Allen & Hanburys, Ltd.).

17. Ointments containing cocaine or other derivatives of coca in admixture with other drugs, and rendered nauseous to the taste, as ung. adrenine and cocaine, ung. suprarenalin and cocaine, ung. atropine and cocaine.

18. Ophthalmic tablets and tabloids of atropine and cocaine (Burroughs Wellcome & Co.), homatropine and cocaine, physostigmine and cocaine, pilocarpine and cocaine, zinc sulphate and cocaine (Parke, Davis & Co.).

Minor Botany.

Being the twenty-seventh of a series of articles for Minor students which commenced on January 3, 1914.

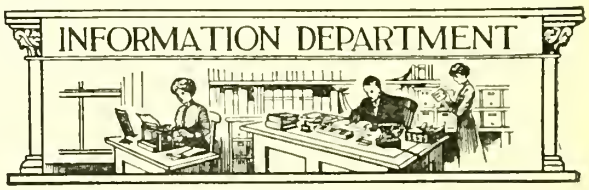
THE *Umbelliferæ* represent the highest development attained among natural orders with polypetalous flowers (*i.e.*, petals present and not united). The success of a natural order is judged by the number of its species and their distribution. The latter is to a great extent a measure of the rate of seed-production and the efficiency of the means of seed-dispersal. Multiplication of species is largely dependent upon rapidity in succession of generations. The umbellifers well illustrate economy in vegetative and reproductive method ensuring success in the plant kingdom.

The rapid-growing stems are hollow and herbaceous. Perennials persist by means of underground roots or rhizomes, protected by soil from drought and frost; but many species are annuals, reproduced from seed only.

ŒNANTHE CROCATA, L.

The leaves are large, but much divided and very thin in texture, with sheathing bases for adequate support. Both stems and leaves show maximum of effect with minimum of tissue expenditure. The flowers are much reduced in size, but the inflorescence is conspicuous owing to the large number massed together. The inflorescence (which is nearly always a compound umbel, or umbel of umbels) is characteristic of the order. An umbel may be looked upon as a raceme in which the internodes between the flowers are not developed, so that they all spring from the end of the axis, the oldest flowers being outermost and indicating the indefinite or racemose nature of the inflorescence. The leaves (bracts) in the axils of which the flowers are developed thus become crowded together. In the compound umbel those at the base of the main umbel are termed the "general involucre," and those at the base of the secondary umbels "partial involucres." The presence or absence of these involucres often aids in distinguishing species in this difficult order. The involucres are usually protective in bud, so that the calyx is relieved of this function and reduced to five teeth surmounting the inferior ovary, or may even be absent. The five white or yellow petals are separate, and often have their tips bent back (reflexed). The stamens are five in number, inserted on top of the ovary (epigynous). The ovary is reduced to two carpels (instead of the typical five), each containing only one ovule and setting a single seed. The ripe fruit is known as a cremocarp, being a bicarpellary type of fruit designated a schizocarp, because it splits into its component carpels without liberating the seed. The two halves of the ripe fruit (termed mericarps) remain for a time suspended to a "carpophore," a prolongation of the flower-stalk between the two halves of the fruit. The seeds, which usually have abundant endosperm, are produced in great profusion, their ripening ending the life of the aërial stem and often of the plant. Thus the umbellifer produces as many flowers as possible, and each flower uses as little material as possible in producing two perfect seeds. The distinguishing characteristics of the order are easily recognisable—seeds, fruits, flowers, inflorescences, leaves, and stems all having the same general habit, which, however, makes distinction of species a difficult task. For this recourse must be had to the minute differences in the fruits.

In this article, the hemlock water dropwort (*Œnanthe crocata*, L.) is illustrated. It shows well the distinctive features of the *Umbelliferæ*. This plant grows in marshes, and possesses large fusiform (radish-like) tubers, which are very poisonous.



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See also "War Wants Exchange" in the Coloured Supplement.

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See also "War Wants Exchange" in the Coloured Supplement.

Observations and Reflections.

By Xrayser II.

Your Educational Number

found me studying an article on the business education of our youngsters, the moral of which is that "the career of the future lies with the man that can do something definite," and that consequently it behoves every parent to direct his boys into some particular groove in accordance, if possible, with their natural tastes, and every boy to work at school with an eye to some career for which he is thus inclined. Unfortunately a good many boys are not naturally inclined to any particular career, and their aptitudes are so late in showing that the parent cannot afford to wait for their appearance. Every parent, however, can, if he will, ascertain whether his son has the qualities necessary to success in his own business, and, if he has, can begin his preparation for it sufficiently early to make the way easy. This would seem the natural course, but I am afraid a good many of us are such inveterate grumblers, so chronically dissatisfied with our lot, that pharmacy is the last thing our children are likely to choose as a career. It is well to desire for them something better than we have achieved for ourselves, but the probability is that a youth who has no definite leaning in any direction will do better in his father's calling than in another. He will at least have many advantages he would not have in another, and among them this of early preparation and familiarity is the chief. As for the career itself, it is easier to find fault with it than to find another in which a youth of no particular talent would be surer of making a respectable living; and if he desires "status," is there not always the profession ahead of him?

That the London "Matric,"

or its equivalent, is being taken by so few pharmaceutical students is a genuine surprise to me. I had the idea that quite a sprinkling of the men at the "Square" were matriculated students, for every now and again we hear of "Square" men going on to the B.Sc. degree. It is of course possible that these students take their "Matric." after they have begun their Minor or Major course, but if the figures supplied to you by headquarters are a fair sample of the whole, then exactly 1 per cent. of the students register on a London University certificate. Moreover, I gather from your remarks that those who register are, as a rule, content to scrape through with the lowest certificate possible. This is disappointing, for I had hoped that a fairly large proportion were passing examinations which would be accepted by the General Medical Council. Thus one other illusion vanishes, and with it the expectation that any appreciable number of pharmacists would be eligible as medical students without passing a further examination in general knowledge. Perhaps it is just as well, for by all accounts the demand for qualified pharmacists is likely to become as insistent as that for medical men. There is, however, this difference—that a pharmacist may at a pinch make an unqualified assistant answer his purpose, whereas an accommodation of this kind is not possible in medicine. The remedy for the shortage of medical men must therefore, I suppose, be sought for in some other direction than in the ranks of pharmacy.

"A Red Rag"

is not a very flattering description of that fairly large section of The Chemist and Druggist now being devoted to Insurance reports. I cannot say that these pages have any bad effect on my own mental constitution, though I admit my perusal of them is apt to be perfunctory. I read them not because I love them, but because I feel it is my duty to keep in touch with the whole daily round of the pharmacist's life in so far as that is possible. Fortunately this is possible to a very large extent, for the *C. & D.* is so comprehensive and so impartial that its perusal gives one a fairly accurate view of everything pharmaceutical in this hemisphere that is worth knowing about. This is not a metaphorical statement; it is literally true. I agree entirely with "W. M." that the *C. & D.* surpasses anything in its line anywhere in the world. But in order to be comprehensive and to live up to its ideal I fear the *C. & D.* will have to print Insurance reports for a very long time to come, and I would advise "J. N." to put on spectacles of the appropriate tint when reading your pages so that he may not be unduly upset by these same reports.

Miss Dorothy Hughes's

"Study of Social and Constitutional Tendencies in the Early Years of Edward III.," to which you referred recently, is a very sound and scholarly piece of work, which will be of permanent value to future students of the period. Naturally it appeals less to the general reader than to the specialist in constitutional history, but even he who reads as he runs should be glad to have his attention called to an aspect of this critical period in our island story which, though less picturesque, is really of more importance than that to which popular historians give much greater prominence. Edward's wars with France, brilliant as they were after his first abortive campaigns, had for their chief direct effect a mutual hatred between the two countries which was almost equally disastrous to both, but incidentally they gave such occasion for the growth of our own liberty as might not otherwise have occurred. Had this able and masterful king been under no necessity to conciliate his people, had he spent all his energy in the aggrandisement of the royal prerogative at home, the development of our parliamentary system would at least have been indefinitely delayed, and the whole course of our history might have been different. Then, as now, the chief problem of government was taxation, and it was the king's need of money that wrung from him the concessions of 1340 and succeeding years, and thus showed the people the secret of power. Miss Hughes writes well and clearly, and her work throughout is based on original research. She does full justice to the king's great qualities, but though her attitude is that of an impartial student, her sympathy is mainly with the people. It is a pity that the book has no index; it deserves one

Ground Ivy,

as to the identity of which Mr. Wise inquires, affords a good illustration of the uncertainty of popular names. Virtually the name is now restricted, except dialectically, to *Nepeta Glechoma*, the old *Hedera terrestris*, or, in English, alehoof; but, like Mr. Wise, I have heard the trailing barren variety of common ivy so called, and also, though very rarely, the ground pine. Formerly the periwinkle was called so too. It is proverbially difficult to prove a negative, but I will be a little bolder than Mr. Wise and say that I do not believe any of these would poison cattle. As regards ground ivy proper, it is enough to remember how extensively it has been used in popular drinks; it entered largely into beer until hops superseded it, and was a common substitute for tea—a use which, I am told, still persists. *Hedera Helix*, on the other hand, is frequently eaten by both sheep and cattle, and, so far as I know, without any ill results. The shepherd in "A Winter's Tale" says his strayed charges are doubtless "at the seaside, browsing of ivy," and Mr. Hardy, in "Far from the Madding Crowd," speaks of the sheep's fondness for it. Ivy has, it is true, somewhat strong properties—it is said to be emetic, and Lyte warns his readers against its excessive use; but it is difficult to understand how, if it is poisonous, it usually does no harm. The other plants referred to may be dismissed as out of the question; the vet.'s diagnosis is, therefore, open to grave doubt.

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Editorial Articles.

After One Year of War.

III.—Emergency Legislation.

As a direct consequence of the war a large number of Statutes, Proclamations, Orders in Council, Rules, Regulations, and Notifications have been passed and made since August 1914. It is not intended in this article to deal with the national aspect of the emergency legislation, but to confine the survey to those points particularly affecting the drug-trade. The group of enactments first to be considered are those made for securing the public safety and the defence of the realm. The first of these was a Proclamation dated August 4, 1914, commanding the King's subjects to obey and conform to all instructions and regulations which might be issued by the King, or by the Admiralty, or Army Council, or other persons acting on the King's behalf, for securing the defence of the realm. Three days later a short Bill was introduced into the House of Commons, and on August 8 became law as the first of the Defence of the Realm Acts. This Act empowered the King in general terms to make Regulations for securing the defence of the realm, the first code of regulations under this Act being issued on August 12. Various amending and consolidating Acts and codes have since been issued, one of the most interesting being the State Control of Liquor Act, which received the Royal Assent on May 19 of this year. Among the powers conferred upon the authorities by the series of Defence of the Realm Acts are those regulating the possession and output of factories and workshops producing war materials. This affects chemical-works likely to be useful for the production of explosives, and has led to the diversion for Government purposes of coal-tar products required for the manufacture of munitions. Power is also given to exempt any factory from the Factory and Workshops Act, 1901, where it is in the national interests that this should be done. It is under the Defence of the Realm Act that Orders are issued regulating the lighting of shops and the shading of lamps. The regulation of the movements and the internment of persons of hostile origin are legalised by the group of enactments which we are considering. The disappearance of many of the staffs of alien enemy firms and companies carrying on business as chemical-merchants and dealers in pharmaceutical products in this country is caused by orders for internment. The retail photographic trade has been affected by the restrictions placed on the practice of photography, although other causes, such as the rise in prices of plates, papers, and chemicals, have contributed to the general decline which has been experienced in certain branches of the photographic business. A minor

prohibition is that which makes it illegal to employ invisible ink in communications sent out of the country, the reason for which is obvious. Prohibition of the use of wireless telegraphy and the possession of apparatus for the purpose may also be noted. The regulations regarding the sale of explosive substances affect the sale of potassium chlorate, picric acid, etc. Special methods of storing petroleum, methylated spirit, turpentine, and wood-naphtha have been ordered when the quantity of these materials stored exceeds 100 gals. The storage of large amounts of celluloid without a permit has also been the subject of regulations. In regard to the prohibition against the supply of intoxicants to any member of his Majesty's Forces when on duty, and with intent to make him less capable of the efficient discharge of his duties, it is interesting to note that "intoxicant" includes "any sedative, narcotic, or stimulant drug or preparation." The liquor-control regulations in certain respects affect chemists holding wine and spirit licences. In this connection there may be mentioned the suspension of Section 6 of the Sale of Food and Drugs Act, 1879, regarding the dilution of spirits, and the Immature Spirits Act with the special section permitting the sale and use for medicinal purposes of spirit which does not fulfil the main condition of the Act. The imposition of additional duties upon spirits was made in the Finance Act, 1915, which contains an exemption in regard to medicinal preparations, although the regulations defining these and permitting the repayment of the additional duties have not yet been issued. The progress of these last two Acts through Parliament will be memorable for many years on account of the differentiation between the duties on potable spirits and medicinal spirits, and also because of the attempt to grant to hospitals the use of duty-free spirit.

Another group of enactments due to the war was financial in scope. The Postponement of Payments Proclamation, confirmed by statutes, established a "Moratorium" from August 3 to November 4, 1914, and extended Government assistance with regard to pre-Moratorium bills. Emergency powers were also given to County Courts regarding the enforcing of the payment of debts. The issue of currency notes for 1*l.* and 10*s.* was authorised, and the notes were made legal tender, by the Currency and Bank Notes Act, which became law on August 6, 1914. The prohibition of the exportation of warlike stores is made under the powers given by Section 8 of the Customs and Inland Revenue Act, 1879, but these powers were extended by the Customs (Exportation Prohibition) Act, 1914, to include, if desirable, "all other articles of every description." The list of prohibited exports has been revised many times, and since the publication of the new list in The Chemist and Druggist last week further amendments have been necessary, and are referred to in another part of this issue. Provisions exist for obtaining permits for exporting goods otherwise prohibited, and also for importing from enemy countries goods prohibited by the various enactments dealing with trading with the enemy. The power to compel owners to make a return of stocks of goods is conferred by the Articles of Commerce (Returns, etc.) Act, and has been exercised in several cases where stocks of chemicals are concerned.

Trading with the enemy was prohibited in general terms by Proclamation dated August 5, 1914, and provisions with respect to penalties were imposed by the first Trading with the Enemy Act (September 18, 1914), since when several amending Acts have been passed. Among the powers given under these Acts is that of inspecting books and documents of traders suspected of trading with the enemy, and the total prohibition of the importation of sugar produced in hostile countries. Reference should also be made to the Patents, Designs, and Trade-marks (Temporary Rules) Acts, which give power to the Board of Trade to grant licences, revoke or suspend patents or trade-marks belonging to alien enemies. It is under these Acts that licences have been granted to manufacture and import salvarsan and neosalvarsan, and the registration of the trade-marks "Aspirin," "Metol," "Glycin," and "Urotropin" has been revoked. Among other enactments may be mentioned the Aliens Restriction (Change of Name) Order, which forbids alien enemies as individuals or firms to change their names from those by which they were known at the commencement of the war. Various orders have also been necessary under the National Insurance Acts on account of the number of enlistments for the Army and for financial reasons. This survey of the legislation rendered necessary by the war would not be complete without a mention of the National Registration Act, having for its object the organising of the resources of the nation. The forms, which were issued last week, are now being collated with a view to directing individual efforts into the channels most useful to the nation in the successful prosecution of the war.

The Poor-law Drug Question.

On not a few occasions in recent years we have drawn attention to the unsatisfactory position of affairs with regard to the supply of drugs required for the use of that considerable portion of the population of this country who are chargeable to the Poor rate, and especially to the sick poor who are in receipt of out-relief and under the care of the district medical officers—a system, be it noted, that covers every part of the country. For some mysterious reason the salaries of district medical officers are, as a rule, based on a low scale—in fact it is probably no exaggeration to say that no branch of the public service is so ill-remunerated for important work. This question of inadequate remuneration is, however, one for the medical profession to deal with, but pharmacists as a body are directly concerned with one of its most unsatisfactory aspects, and that is the fact that, in the majority of Unions, the district medical officer is required to provide drugs (with a few exceptions) out of his salary. Given a medical man underpaid for his professional services, and compelled to provide drugs out of a salary inadequate for the work, and the character of his dispensing as affected by the question of cost is not far to seek. This system perpetuates the worst features of the old contract-practice, and, as pointed out at the time, the National Insurance Act wiped out the last vestige of an excuse for its continued existence. If, as has been proved to be the case, the dispensing of drugs for insured persons can be effectively arranged to provide for the proper division of labour between the doctor and the pharmacist in all but a small area of the country, similar arrangements can, with an equal gain in efficiency, be made in respect of those who are a charge on the public funds—and perhaps with more force. It is admitted that there has been an improvement in recent years, especially in the larger centres of population, but there are now indications that the shortage of medical men is going to prove one factor that will compel the Guardians to grapple with the problem and, it is hoped, destroy for all time the present anomalous state of affairs.

Three striking examples of existing conditions came to hand recently, one of them (in the Poole Union) affecting the position of the medical officer of the Poor-law institution. In this instance the Guardians increased the medical officer's salary from 75*l.* to 95*l.* a year, but still required him to continue to supply drugs, notwithstanding his significant statement that the cost of drugs used "at the lowest National Insurance rates, without any dispensing-fees or bottles, would be 1*l.* 15*s.* for two weeks, or 45*l.* 10*s.* per year if the same rate of use was maintained, but it is much more during the winter months and cold weather, when our numbers are also much increased."

Meanwhile we suggest that this is a matter in which the pharmacists in the district might well have made their voices heard. What is the local organisation doing? The most significant hint of change, however, comes from the Bedwellty Union, where the Guardians have just decided that, subject to the approval of the Local Government Board, the existing contracts with the district medical officers for attendance on the outdoor poor, and for the supply of medicines, shall be cancelled. The discussion disclosed two facts: first, that in two districts at present they had no doctor; and, second, that another of the officers had applied for an increase of 90*l.* It was decided that the officers in future be paid salaries based on the proportion of the chargeable poor requiring medical attention, and that every person applying for relief be asked whether he is entitled to assistance or drugs from any society; for, as is well known, in the Welsh valleys the medical colliery funds cover a large portion of the population. With regard to the question of the supply of drugs, the Bedwellty Guardians propose to try an experiment which, so far as we are aware, is novel in Poor-law practice. They propose to enter into contracts for the supply of drugs, etc., based on the number of the chargeable poor, at so much per head. A further instructive incident is reported from the Birkenhead Union, where the dispensary system has been in operation. The Guardians now propose to ask the Local Government Board to rescind the remaining provisions of their order regarding the appointment of dispenser, to abolish the outdoor dispensary at Birkenhead, and to make arrangements with chemists to supply drugs, medicines, etc., to the outdoor poor residing in the Birkenhead medical districts. In proposing the adoption of these arrangements the mover said it was felt that the present plan

is unfair to the people, especially to those who lived, say, up at the Dock Cottages, and who might have to pay 4*d.* tram-fares to come and get their medicine. It was proposed that the custom adopted in Wallasey should be adopted here. The people could send to the nearest chemist for what they wanted. It would be a very great convenience, and no extra charge.

In noting this change we observe that the position of the dispenser is to be considered at another meeting of the Guardians.

To return to the broad question of principle underlying these instances, we again urge that this is a case in which local influence may do much to improve matters and divert an important stream of supplies into orthodox channels. Our chief reason for again referring to the matter is to call the attention of those concerned to an opportunity which presents itself of putting this matter right. The Local Government Board has appointed a Departmental Committee to revise the Poor-law Orders. These Orders prescribe the duties of institutional and district medical officers and dispensers, and every effort should be made to secure that in future the medical officer shall be relieved of the duty of supplying drugs, medicines, and appliances, and where possible of the responsibility of dispensing, and that these duties shall be discharged in one or other of the methods advocated in these columns from time to time. This is a matter in which the Pharmaceutical Society might well join hands not only with the National Poor-law Officers' Association (Incorporated), which includes in its ranks hundreds of men directly affected, but also with the Poor-law Medical Officers' Society and the Poor-law section of the Public Pharmacists' and Dispensers' Association.

War Badges.

We continue to receive inquiries regarding the grant of war badges for those engaged in dispensing prescriptions under the National Insurance Act, and it is desirable, therefore, that we should indicate how the matter stands. Since the war commenced there have been issued by various Government Departments to officials employed in those Departments badges, with such wording as "On War Service," or "On Government Service." Similar badges have also been supplied to workmen engaged on Government work. The issue of these badges rested upon general powers conferred upon the Admiralty, the Army Council, etc., and it is an offence under the Defence of the Realm Acts to imitate badges issued in this way. Regulation 41 of the Defence of the Realm Regulations is as follows:

If any unauthorised person wears any naval, military, police, or other uniform, or any badge supplied or authorised by the Admiralty or Army Council, or by any police or other official authority, or any uniform or badge so nearly resembling any such uniform or badge as aforesaid as to be calculated to deceive, or if any person without lawful authority supplies a naval or military uniform to any person not being a member of his Majesty's Forces, or any such badges as aforesaid to any person not authorised to wear the same, he shall be guilty of an offence against these regulations.

The opportunity was taken during the passage of the Munitions of War Act to make further provision for the issue of badges to workmen and others engaged on munition work or other work for war-purposes. Section 8 of the Act states:

(1) The Minister of Munitions may make rules authorising the wearing of badges or other distinctive marks by persons engaged on munitions work or other work for war-purposes, and as to the issue and return of any such badges or marks, and may by those rules prohibit the use, wearing, or issue of any such badges or of any badges or marks indicating or suggesting that any person is engaged on munitions work or work for war-purposes except as authorised by those rules.

(2) If any person acts in contravention of, or fails to comply with, any such rules, he shall be guilty of an offence against this Act.

Provisional rules have been issued under this Section which set forth that employers of persons engaged on munitions work may make application to the Minister of Munitions on a form, giving the name and address of the applicant, the number of badges applied for, and the place of employment of each person employed in respect of whom application is made. Further rules emphasise the responsibilities of those to whom the badges are granted and also the limitations of the use of the badges. Those employed in the manufacture of chemicals used for war-purposes would come under the definition of persons to whom "war-service badges" may be granted, and we believe steps have been taken in some quarters to obtain badges for chemical-workers.

Under the National Registration Act certain powers are conferred upon the Government which might be applicable to Insurance dispensers. Section 6 is as follows:

After the return by a person of a form filled up and signed, and, where necessary, completed and corrected, in accordance with this Act, there shall be supplied to him a certificate of registration, which shall be signed and preserved by him.

It is under this section that application was made to the Local Government Board by the Pharmaceutical Society for the grant of "a certificate or token" for pharmacists carrying on pharmaceutical service under the National Insurance Act and gratuitous dispensing for the necessitous dependants of soldiers and sailors. The matter was referred to an Advisory Committee by the Local Government Board, but no decision has yet been arrived at. It will be noticed that although the National Registration Act only refers to "a certificate of registration," the demand of the Pharmaceutical Society was for a "certificate or token." Most of our correspondents have in view a badge which could be worn on the person, which would seem to be what the Pharmaceutical Society refers to also as a "token."

Destroying Wasps.

The usual method of doing this is to make a solution of potassium cyanide of the strength of from 1 oz. to 2 oz. to the pint of water, and with this saturate pledgets of cotton-wool or other absorbent substance, and place them in the nests of the wasps and then cover with a clod of earth. The hydrocyanic fumes which are evolved are fatal to the wasps. The purpose of this note is to suggest that at the present time when potassium salts are scarce, sodium cyanide should be employed—it is cheaper, and answers the purpose equally well.

A U.S.P. Forecast.

The United States Pharmacopœia is to include in the new edition a table of abbreviated Latin names such as is given in Appendix XVII. of the British Pharmacopœia. This is inferred by the statement in the Preface of the latter work. We now learn from a paper by Professor Joseph P. Remington, read before the Pennsylvania Pharmaceutical Association, that the word "mil" is to be introduced into the United States Pharmacopœia in place of cubic centimeter. In this country so far both the table of abbreviations and the word "mil" have fallen flat.

"Drugs Vended Entire."

In the case under the Medicine-stamp Act heard against Knoll & Co., Ltd., at the Mansion House this week (p. 40), the exemption in favour of entire drugs was in question. The prosecuting solicitor said this exemption does not apply in the particular case before the Court, as the company is not "a chemist and druggist who has served a regular apprenticeship." The articles in question were drugs in tablet form, which contained also sugar of milk and starch. The defence submitted that the proper construction of the exemption is that the article is an entire drug if it is a single chemical combination (as opposed to a mixture), known as a separate drug. It is none the less an entire drug because you put it with some carrier like a bit of gum to stick it together or a little sugar outside it to form a capsule to keep it together, or a few breadcrumbs, which was the old-fashioned way of making a pill, or a little water to make it weaker or starch to bind it. In any of these cases *qua* drug you have only got one drug, and you have got nothing else to affect its medicinal operation. It would be absurd to introduce an exemption and at the same time, while exempting an entire drug, to rule out that drug if you add something which does not alter its medicinal effect, but merely makes it more convenient to take.

The article upon which the first summons was taken was ovaraden tablets, which, according to the prosecution, are mixed with half their weight of starch and a further one-fourth of milk-sugar. These additions, according to the Government analyst, make the preparation of "a more secret occult character," without, however, affecting the medicinal properties. A case is to be stated for the High Court.

Insurance Pharmacopœias.

We continue the comparison of stock-mixture formulæ as given in the local Pharmacopœias, which have been issued by Local Medical Committees and Pharmaceutical Committees in connection with Insurance Act dispensing. The series commenced in the *C. & D.* of January 30, 1915 (p. 142). Each of the formulæ is given in a single dose, and the quantities are in parallel columns to facilitate comparison. Each column is numbered, and the names of the areas with alternative names for the prescriptions are indicated by the numbers.

Mist. Ferri et Ammon. Citratis.

	1	2	3	4	5	6	7
Ferri et ammon. cit....	10 gr.	5 gr.	5 gr.	5 gr.	5 gr.	7½ gr.	7½ gr.
Magnes. sulph. ...	10 gr.	—	—	—	—	—	15 gr.
Ammon. carb. ...	—	—	3 gr.	2 gr.	1 gr.	—	—
Potass. bicarb. ...	—	—	—	—	—	7½ gr.	—
Glycerin.	—	—	—	30 m.	—	—	—
Liq. arsenicalis ...	—	—	—	—	—	—	1⅞ m.
Inf. calumbæ ... to	—	—	—	—	—	—	½ oz.
Aq. menth. pip. to	1 oz.	—	—	—	—	—	—
Aq. chloroformi to	—	½ oz.	—	½ oz.	1 oz.	—	—
Aq. ... ... to	—	—	½ oz.	—	—	½ oz.	—

1, Birmingham; 2, Bradford and Dorset; 3, Doncaster; 4, Hull; 5, Leicestershire (Mist. ferri citratis); 6, Sheffield; 7, West Hartlepool.

Mist. Ferri Perchloridi.

	1	2	3	4	5	6	7
Liq. ferri perchlor. ...	10 m.	10 m.	10 m.	10 m.	15 m.	10 m.	10 m.
Glycerin.	—	15 m.	—	15 m.	15 m.	10 m.	10 m.
Inf. quassiæ ... to	—	—	½ oz.	—	—	—	1 oz.
Aq. chloroformi ...	—	—	—	to ½ oz.	to ½ oz.	to 1 oz.	240 m.
Aq. ... ... to	1 oz.	1 oz.	—	—	—	—	—

1, Birmingham; 2, Birmingham (Mist. ferri c. glycerino); 3, Bournemouth (Mist. ferri quassiæ) and Doncaster; 4, Bradford; 5, Dorset; 6, Leicestershire.

Mist. Ferri et Potassii Chloratis.

	1	2
Liq. ferri perchlor.	20 m.	15 m.
Potass. chlor.	10 gr.	10 gr.
Glycerin.	20 m.	—
Inf. quassiæ	—	180 m.
Aq. ... ... to	1 oz.	½ oz.

1, Birmingham; 2, Sheffield.

Mist. Ferri et Quininæ.

	1	2	3
Quinin. sulph.	1 gr.	1 gr.	2 gr.
Ferri sulph.	1 gr.	—	—
Potass. cit.	—	—	5 gr.
Acid. sulph. dil.	3 m.	—	—
Liq. ferri perchlor.	—	10 m.	10 m.
Glycerin.	—	15 m.	—
Aq. chloroformi ... to	—	½ oz.	½ oz.
Aq. menth. pip. ... to	1 oz.	—	—

1, Birmingham; 2, Bradford (Mist. quin. c. ferro); 3, Hull (Mist. ferri perchloridi et quininæ).

Mist. Ferri et Quinin. Cit.

	1	2	3
Ferri et quin. cit.	5 gr.	5 gr.	5 gr.
Inf. quassiæ ... ... to	—	—	½ oz.
Aq. chloroformi ... to	1 oz.	½ oz.	—

1, Birmingham; 2, Bradford; 3, Hull.

Mist. Ferri et Strychninæ.

	1	2	3	4
Liq. strychninæ	3 m.	3 m.	5 m.	5 m.
Liq. ferri perchlor. ...	10 m.	—	10 m.	5 m.
Ferri et quinin. cit. ...	—	5 gr.	—	—
Acid. nitro-hydroch. dil.	—	—	10 m.	—
Aq. chloroformi ... to	—	—	½ oz.	½ oz.
Aq. ... ... to	1 oz.	½ oz.	—	—

1, Birmingham; 2, Bournemouth (Mist. tonic.); 3, Dorset (Mist. strychn. c. ferro); 4, Liverpool (Mist. tonica).

Mist. Filicis Maris.

	1	2
Ext. filicis maris liq.	30 m.	60 m.
Mucil. acaciæ	120 m.	—
Syr. zingib.	—	60 m.
Tr. quillaiæ	—	30 m.
Aq. ... ... to	1 oz.	1½ oz.

1, Birmingham; 2, Sheffield.

Mist. Hydrargyri et Potassii Iodidi.

	1	2	3	4	5	6
Liq. hydrarg. perchlor. ...	60 m.	60 m.	30 m.	30 m.	60 m.	30 m.
Potass. iodid....	10 gr.	5 gr.	10 gr.	5 gr.	7½ gr.	5 gr.
Chloroform.	—	—	—	—	½ m.	—
Inf. chiratæ ... ... to	—	—	—	½ oz.	—	—
Aq. chloroformi ... to	—	½ oz.	—	—	—	—
Aq. ... ... to	1 oz.	—	½ oz.	—	½ oz.	½ oz.

1, Birmingham; 2, Bradford (Mist. hydrarg. biniod.) and Liverpool (Mist. hydrargyri co.); 3, Gateshead (Mist. hydrargyri iodid.); 4, Hull (Mist. potassii iodidi c. hydrargyro); 5, Sheffield (Mist. potassii iodidi c. hydrargyro); 6, West Hartlepool (Mist. pot. iodid.).

Birth.

Authenticated notices are inserted without charge.

Innes.—At Portgordon, on August 11, the wife of Rome Innes, chemist and druggist, of a daughter (stillborn).

Marriages.

Authenticated notices are inserted without charge.

Brown—Henderson.—At Burlington House, Glasgow, by the Rev. J. Hutchison Cockburn, Battlefield Parish, on August 11, Angus Brown, chemist and druggist, Paisley, to Jean Wilson Henderson, late of Rochester, N.Y., U.S.A.

Cornish—Turner.—At St. John's, Carrington, Nottingham, on August 17, Hubert Henry Cornish, chemist and druggist, Nottingham, to Kate Milner Turner, Nottingham.

Garrow—Annand.—At 106 Mid Street, Keith, by the Rev. Matthew Stewart, B.D., Keith, assisted by the Rev. Alexander McKay, Botriphnie, on August 11, Robert Whitelaw Garrow, Ph.C., Keith, to Catherine Eleanor, twin daughter of Mr. James Annand, Keith.

James—Davies.—At Brondeifi Unitarian Chapel, Lampeter, by the Rev. R. Cribin Jones, on July 31, Evan H. James, chemist and druggist, Lampeter, to Lizzie Davies, Llwynifan Cottage, Cellan.

Leicester—Turner.—At Emmanuel Church, Chadderton, by the Rev. S. Waiswick, on August 14, Charles Leicester, chemist and druggist, Oldham, to Alice Turner, Hollinwood.

Looser—Barr.—In London, on August 14, Robert Frederick Looser to Isabella Shanks, daughter of Mr. Robert Barr, chemist and druggist, Gourock.

Deaths.

Authenticated notices are inserted without charge.

Broadbent.—At 1,117 Chester Road, Stretford, Manchester, on August 8, Mr. Samuel Broadbent, chemist and druggist, aged fifty-six.

Broom.—At Ilfracombe, on August 13, Florence Emma, wife of Mr. Frank W. Broom, chemist and druggist, 36 Fore Street, Devonport.

Caffrey.—At 116 Lower Gardiner Street, Dublin, on August 11, Mr. Michael John Caffrey, Ph.C., late of 123 Great Britain Street. Deceased qualified in April 1910.

Gibbs.—On August 12, Mr. Henry Gibbs, chemist and druggist, High Street, Berkhamsted (Herts), aged sixty-three. Mr. Gibbs had been in business in Berkhamsted for a number of years, and was a former Chairman of the local Chamber of Commerce, of which he was one of the founders. He leaves a widow, one son, and two daughters.

Jones.—At Boscobel Hall, Terrace Mount, Bournemouth, on August 7, Mr. Joseph Sclater Jones, chemist and druggist, aged seventy-four.

McPhail.—At Longtown, near Carlisle, on August 11, the result of an accident, Allan Scott McPhail, son of Mr. John McPhail, chemist and druggist, Longtown.

Thomson.—At 21 Spencer Park, London, S.W., on August 12, Miss Caroline Pago Thomson, only surviving daughter of the late Dr. Anthony Todd Thomson, F.R.C.P. Dr. Thomson was the first Professor of Botany of the School of Pharmacy of the Pharmaceutical Society, and held that office until his death in 1849. He was the author of the "London Dispensatory" and of the "Conspectus of the Pharmacopœia." Professor Bentley succeeded Dr. Thomson in the Chair of Botany at Bloomsbury Square.

Killed in Action.

Harper.—Killed in action at the Dardanelles, Lieutenant E. M. Harper, 7th Battalion Royal Munster Fusiliers, formerly Assistant Demonstrator of Chemistry at the Queen's University, Belfast.

Tranter.—Killed in action, in France, on August 7, Private W. R. Tranter, 5th Battalion Cameron Highlanders, aged forty-one. Private Tranter was employed previous to the war with J. F. Macfarlan & Co., Edinburgh.

Died of Wounds.

Lyttle.—On May 22, from wounds received in action near Ypres, Charles William Lyttle, Canadian Army Medical Corps, graduate in pharmacy, University of Manitoba, 1910, and a member of the British Columbia Pharmaceutical Association. Mr. Lyttle was formerly employed in Vancouver.

Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

Mr. R. C. Wren, of Potter & Clarke, Ltd., left on August 18 for Sierra Leone and Lagos (Southern Nigeria) on a business-tour. He expects to be away about two months.

Miss Doris Barfoot, daughter of Mr. J. R. D. Barfoot, chemist and druggist, F.S.M.C., Chesterfield, has passed the Intermediate examination for the B.Sc. degree of London University.

At an aquatic gala in the new bathing-pool at Scarborough, on August 14, Miss N. Lothian, the twelve-year-old daughter of Mr. J. Lothian, Ph.C., of J. F. Macfarlan & Co., Abbeyhill, Edinburgh, was the winner of the fifty yards ladies' race.

Mr. William Tate, of Tate, Francis & Co., drug-dealers, Roman Road, Victoria Park, London, N.E., writes to state that, although he was the founder of the business carried on as Tate's Drug-stores, Kentish Town, N.W., he sold it eight years ago to Mr. Payne, and has not been connected with it since.

Mr. Arthur Lynch, M.P., who was a member of the Select Committee on Patent Medicines and, having medical qualifications, can always be depended upon to speak up for the medical profession in the House of Commons, was injured in the railway accident which took place on the London and North-Western Railway near Weedon on August 14. Nine persons were killed.

Association Affairs.

Bath.—The annual report of the Bath Pharmaceutical Association, presented at the annual meeting held recently, referred to the events of the past year, feeling remarks being made regarding the sudden death of Mr. H. K. Pryke. The balance-sheet showed a sum of 4*l.* 17*s.* 11*d.* in hand on June 30. The following officers were elected for the coming session: *President*, Mr. H. W. T. Gedge; *Vice-Presidents*, Messrs. E. W. Loveless and D. A. Evans; *Treasurer*, Mr. J. W. Cooper; *Hon. Secretary*, Mr. W. J. Hallett; *Committee*, Messrs. H. C. Broad, J. G. Hawes, J. R. Henderson, C. Jenkin, J. H. Kershaw, A. E. Mills, H. Norris, L. Wilson, and D. J. Williams.

Leeds.—The Secretary of the local Association has issued a minimum retail price-list for August for war-affected drugs. Revised lists will be issued at the beginning of each month.

West Bromwich.—A meeting of the Executive Committee of the West Bromwich Pharmaceutical Association was held on August 17 when the following minimum prices were arranged: Ext. malt and ext. malt and cod-liver oil, 1-lb. jars 1*s.*, 2-lb. 1*s.* 9*d.*; perfume samples (Zenobia, Crown Perfumery, Yardley, etc., formerly 3*d.*), 4*d.*; bromides of ammonium, sodium, and potassium, 10½*d.* per oz.; ammonium sulphocyanide, 6*d.* per oz.; tablets of phenacetin and phenacetin co., bots. 25 10*d.*, 100 2*s.* 6*d.*; Southall's A1 cod-liver oil, 8 oz. 1*s.* 3*d.*, 16 oz. 2*s.* 4*d.* The Executive Committee recommends that a sum of 15*s.* owing to the Pharmaceutical Society for expenses of the last two Pharmaceutical Committee elections be paid from the funds of the Association. It is suggested that the cost of prescription-checking should be paid by means of a voluntary levy, each chemist paying a share according to the value of his yearly account, or according to the amount paid to him during the medical year. The next meeting of the Association will be held at Messrs. Bullus's on August 24 to receive the report of the Pharmaceutical Committee and to discuss Insurance matters. The September meeting will be devoted to considering the Pharmaceutical Society's letter on "Proposals for Certain Reforms."

Bahamas Peppers.—A beginning has been made in the growing and shipping of these in the out-islands, which promises to develop considerably now that growers have learnt the method of cultivation and found a market.

Spanish Potash Salts.—The extensive deposits of sulphate of potassium and carbonate of potassium which are reported to have been discovered at Cardona, in the Province of Barcelona, are being worked by a Belgian company, which paid 20,000*l.* for an option on the bulk of the deposits. Sinking operations are still being carried on, and the deposits are so far not being worked as a commercial success, being hardly out of the experimental stage.

Medical Gleanings.

Dangers of Hedonal.

"The Lancet" thus sums up the limitations of hedonal as an anæsthetic:

The consensus of opinion at the present time about hedonal as an anæsthetic appears to be that its employment should be restricted to cranial and spinal surgery, while it should be avoided for all operations on or about the air-passages. Further, very small doses are indicated, and the rate of flow of the infusing solution should be as slow as is consistent with the avoidance of clotting in the veins, a complication at once not uncommon and dangerous.

Hedonal is a German-owned chemical, particulars of which were given in the *C. & D.*, March 13, p. 98.

The Treatment of Diarrhœa.

Dr. Lehmann, after experience of various methods of treating diarrhœa in the French Army, has adopted the use of ipecacuanha, and has been so satisfied with it that he has had recourse to it in every rather serious case. He administers from 0.80 to 1 gram of powdered ipecacuanha per diem, divided into five or six doses of 0.20 gram each. He directs each dose to be taken in a warm infusion every two hours. On the day of administration the patient is restricted to a liquid diet, and milk is forbidden. The following day he may feed on solids again, with the exception of meat. The diarrhœa is not stopped on the actual day of administration, but ceases on the following day. The use of this treatment has made it no longer necessary to remove any patient from duty on account of diarrhœa, and he is not rendered unfit for duty for more than a single day. The remedy is very well tolerated; it sometimes gives rise to nausea, but rarely to vomiting.—*The Lancet.*

The Treatment of Sprains.

A Correspondent of "The Lancet" supplies the following account of a method of treatment of sprains which he has found of great service, and though it differs but little from methods already employed, it contains some new points. The correspondent holds that it is of great importance to prevent effusion into the injured areolar tissues, so that the ruptured fibrous or muscular tissues may not be kept apart thereby, and this he effects by bandaging the part firmly with strapping three-quarters of an inch in width; the most convenient form is that supplied in rolls, and in an emergency the "adhesive tape" of the electrician may be used with satisfactory results. The strapping should be firmly applied over the affected part, but a free space should be left—*e.g.*, over the instep in the case of the ankle—to prevent interference with the circulation. The application should be made as soon as possible after the injury, but the correspondent has met with success even two days after the accident. The use of hot affusions over the strapping will rapidly remove the pain. An important advantage that is claimed for this method of treatment is a greatly lessened liability to adhesions in consequence of the mobility that remains after the strapping.

Surgical Antiseptic.

The hypochlorous solution employed as a surgical antiseptic by Drs. Carrel and Dakin (*C. & D.*, August 14, p. 37) is made as follows, according to the "British Medical Journal":

Two hundred grams of chlorinated lime is added to 10 litres of water in which 140 grams of sodium carbonate has been dissolved. The mixture is well shaken, and after an hour the liquid is syphoned off from the precipitate of carbonate of lime and filtered through cotton. To the clear liquid thus obtained boric acid is added in quantity sufficient to render the liquid acid or neutral. The titration is made with an aqueous solution of phenolphthalein; the amount of boric acid required is generally 25 to 40 grams.

A solution thus prepared having a hypochlorite concentration of less than 1 in 500,000 was found to kill staphylococci in two hours. The concentration of hypochlorite required to produce the same result in the presence of blood serum was from 1 in 1,000 to 1 in 2,500. Carrel reports that he has found this solution very efficacious in the treatment of infected wounds. They could be irrigated continuously for several days without marked irritation of the skin being produced. Bacteriological examination of the discharges from the wound showed that the solution possessed an energetic antiseptic action, and that it had also the property of dissolving necrosed tissues, and some hæmostatic power. [Compare with note on "Eusol," *C. & D.*, July 31, p. 144.—Editor.]

Brachial Neuritis.

The following points regarding the treatment of neuritis in the arm are given in a paper by Howell in "The Practitioner":

(*a*) *Drug Treatment.*—For pain, especially that associated with rheumatic or gouty cases, the following mixture often proves very useful:

Phenazoni	gr. v.-x.
Sodii salicylatis	gr. x.
Caffeinæ citrat.	gr. v.
Sp. ammoniæ aromat.	ʒss.
Aq. chloroformi ad	℥ss.

For the arteriosclerotic cases a mixture containing nux vomica and potassium iodide is often very effective. Aspirin gr. xv. has also proved useful in the milder cases.

(*b*) *Cataphoresis.*—This has been found of the very greatest use in relieving pain and shortening the attack in cases of rheumatic or gouty origin. The drugs introduced are either 2 per-cent. sodium salicylate or iodine. For the former the cathode is used, for the latter the anode. It is preferable to have the arm treated by hot air, or hot compresses, before ionisation is begun; the object of this is to get the skin thoroughly moist, thus enabling large currents to be used painlessly, whereby the entrance of the iodine or salicylic-acid ions is facilitated.

(*c*) The limbs should be kept warm by being wrapped in wool, and the weight of the arm supported by a sling.

(*d*) Should muscular weakness and wasting occur, it is of the utmost importance that the paralysed muscles should not be stretched either by the weight of the limb or by contraction of the antagonists. This is prevented by putting the limb in a light splint, one made of celluloid being quite suitable for the purpose. The nutrition of the muscles must be maintained by massage and the use of the electric current, in the form of galvanism or faradism, according to the response obtained from the muscle on testing with one or the other.

Some Enemy Patents Still in Force.

The following table gives particulars of patent-rights and registered trade-marks of a number of pharmaceutical chemicals. As the owners are alien enemies, the source of supply is cut off on account of the war:

—	Patent No.	Patent Year	Patentee	No. of Registered Trade-mark	Year of Registration
Acidol ...	15161, 15162, 16710	1913	Actien Gesellschaft	263431	1904
Adalin ...	2888	1910	Bayer	325352	1910
Afridol ...	10075	1909	Bayer	252746	1903
Albulactin ...	6179	1908	Wulfing	293389	1907
Allosan ...	15122	1908	Zimmer	307856	1908
Alypin ...	12843	1905	Bayer	268134	1905
Arsacetin ...	3934	1907	Meister	305705	1908
Borovertin ...	5039	1906	Actien Gesellschaft	294360	1907
Bromural ...	942	1907	Knoll	284555	1906
Citarin ...	23988	1902	Bayer	249047	1902
Cusylol ...	24240	1910	Actien Gesellschaft	329253	1911
Diplosal ...	11457	1908	Boehringer ...	303704	1908
Eustenin ...	6439	1908	Zimmer	304580	1908
Fibrolysin ...	22533, 29247	1905, 1909	Merck	271208	1905
Hegonon ...	4564, 12344	1909, 1910	Schering ...	325044	1910
Insipin ...	15392	1910	Boehringer ...	332494	1911
Maretin ...	7954	1904	Bayer	256263	1903
Mesotan ...	8955	1902	Bayer	242570	1902
Novaspirin ...	16258	1906	Bayer	284656	1906
Ozet... ...	23165, 23165A	1906	Sarason	295142	1907
Regulin ...	19311	1906	Dieterich ...	285174	1906
Sabromin ...	14323	1906	Bayer	286625	1906
Sajodin ...	17374, 23648A	1905, 1906	Bayer	286625	1905
Salit... ...	26785	1903	Von Heyden ...	258851	1904
Spirosal ...	4055	1905	Bayer	282764	1906
Styptol ...	13889	1903	Knoll	253307	1903
Valisan ...	1682	1908	Schering	301957	1908

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Inventions
Which have Become Public Property.

(Second Series.)

III.

[Continued from The Chemist and Druggist, August 7.]

Desichtol.

Deodorised ichthyol.

Trade-mark : No. 210505 was registered in 1898 by the Ichthyol Gesellschaft Cordes, Hermanni & Co., Hamburg, but removed from the Register in 1912.

Patent : No. 10875 of 1898, "Improvements in and relating to Sulphur Compounds of Mineral Oils and Similar Hydrocarbons," granted to Dr. Ludwig Otto Helmers, Hamburg. The patent lapsed in 1903.

The following is the method of manufacture given in the specification of the patent :

Ten kilos. of ichthyol-ammonium is mixed with about 7.5 litres of water, and to this mixture is added 2.5 kilos. of a solution of peroxide of hydrogen as brought into the market (containing about 3 per cent. of peroxide of hydrogen), whereupon the whole is left at rest while kept cool. The characteristic odour of "ichthyol" then escapes successively, instead of which a mild aromatic odour will be observed. After the lapse of twenty-four to forty-eight hours the mixture is decanted into a shallow vessel and then concentrated by heating. . . . Finally, the residue is again dissolved in water, neutralised by ammonia, and evaporated to the original weight; that is to say, 10 kilos.

Diaspirin.

Succinyl-di-salicylic acid. Its action is similar to aspirin, but it is more strongly diaphoretic.

Trade-mark : No. 301139, registered in 1908 as an "associated mark" by the Farbenfabriken vormals Friedrich Bayer & Co., Elberfeld. [The mark "Aspirin" with which it was associated was removed from the Register in 1915 under the provisions of the Patents, Designs and Trade-marks (Temporary Rules) Acts, 1914.]

Patent : No. 5842 of 1907, "Manufacture and Production of New Pharmaceutical Compounds," granted to the above-named company. The patent lapsed in 1914.

The method of manufacture given in the specification of the patent is as follows :

One hundred and fifty-five parts of succinyl chloride is slowly added to a solution, which has to be cooled, of 276 parts of salicylic acid in 500 parts of benzene and 500 parts of dimethyl aniline. The mixture is allowed to stand for some hours. It is then poured into water and an excess of hydrochloric acid is added thereto. The succinyl-di-salicylic acid separates, on stirring for a short time, as a solid body; its precipitation is accelerated by the addition of ligroin. It is filtered off, washed with water, and recrystallised from glacial acetic acid or alcohol.

The homologues and salts and the combination with hexamethylenetetramine were also claimed in the specification.

Digipuratum.

A purified preparation of digitalis.

Trade-mark : No. 302865, registered in 1908 by Knoll & Co., Ludwigshafen a/R.

Patent : No. 6019 of 1908, "Improvements relating to Pharmaceutic Preparations from Digitalis-leaves," granted to above-named company. The patent lapsed in 1915.

The process given in the specification is as follows :

Ten kilos. of finely-powdered digitalis-leaves are extracted a few times with 5 parts of alcohol of high percentage; the extracts neutralised with alcoholic caustic-soda solution, for example, and as such or after concentration *in vacuo* mixed with ether as long as a precipitate forms. The extract separated from the precipitate is concentrated *in vacuo*, and after the addition of 2 parts of milk-sugar or some other suitable vehicle completely transformed into a pulverised form. In place of ethyl alcohol other alcohols or other suitable solvents may be employed, and instead of ether petroleum spirit or some other suitable precipitant may be used.

It is added that the strength can be adjusted by means of further additions of milk-sugar.

Dionin.

Ethyl morphine hydrochloride. Used in place of codeine and morphine in bronchitis, whooping-cough, etc.

Trade-mark : No. 217175, registered in 1899 by E. Merck, Darmstadt. Registration renewed in 1912.

Patents : No. 13703 of 1899, "Manufacture of Morphine by Heating Morphine with Bromide of Ethyl," granted to Professor Joseph Freiherr von Mering, Halle a/S., and No. 14366 of 1901, "An Improved Process for Preparing Alkyl Ethers of Morphine," granted to E. Merck, Darmstadt. Both patents expired in 1912. The German patent is 102634 (22/5/98), with patents of addition, 107225 (11/6/98) and 108075 (1/9/98).

Von Mering's patent prepares ethyl morphine as follows :

I have dissolved morphine in alkali, adding sodium or caustic soda in calculated quantities, and have then added bromide of ethyl in calculated quantities. The mixture was subsequently heated for one or two hours at a temperature varying between 80°-100° C. in a digester or upon a water-bath.

Merck's patent (14366 of 1901) deals with the same subject, and it should be noted that this and the various German patents refer also to the transformation of morphine into codeine (methyl morphine).

Lithion.

Sodium dithiosalicylate. Antirheumatic.

Trade-mark : None registered.

Patent : No. 14443 of 1888, "A Process for the Production of Aromatic Dithio-oxycarbon Acids," granted to Heinrich Baum, Frankfort a/M. The patent expired in 1897.

The method of the manufacture of dithiosalicylic acid is thus described in the specification of the patent :

One hundred and thirty-eight kilos. of salicylic acid is heated with 68 kilos. of sulphur chloride (S_2Cl_2) to from 100° to 150° C., until the evolution of hydrochloric acid ceases.

The salts are prepared from the acid by the use of the corresponding bases. Patent No. 13027 of 1889 (expired 1903), granted to Dr. F. von Heyden Nachfolger, Radebeul, entitled "Improvements in the Separation of the Isomeric Substances Produced in the Manufacture of Dithiosalicylic Acid," describes two methods of separating the isomerides produced in Baum's patent. The methods depend upon the relative solubility of the sodium salts and of their different solubility in alcohol.

Eigon.

Combinations of bromide and iodine with albumen and peptone. Used in place of alkali bromides and iodides.

Trade-mark : No. 227710, registered (no claim for "Eig") in 1900 by the Chemische Fabrik Helfenberg Actien Gesellschaft vormals E. Dieterich, Helfenberg. Registration renewed in 1914.

Patents : No. 7740 of 1898, "An Improved Process for the Production of Iodised Albumen and Iodised Peptones," and 17934 of 1899, "Process for the Production of Bromide of Albumen, Bromide of Peptone, and Albuminous or Peptonous Derivatives of Bromine," granted to the above-named company. The first of these expired in 1907, the second in 1906.

The following is one of the processes given in the patent-specifications :

Iodised albumen containing 10 per cent. of combined iodine, 90 grams of white of egg well ground to a fine powder, and 11 grams of sublimated iodine, also ground as finely as possible, are gradually and intimately mixed together without moistening them until the whole appears as an evenly yellow-brown mass. This is then moistened with enough alcohol of 90-per-cent. strength to form a thick paste. The mixture is then thoroughly stirred for half an hour, then covered and placed in the drying-chamber with a temperature of 85° C. After having thus left it for about half an hour it is spread out upon glass slabs. There it is allowed to dry in a temperature not exceeding 35° C., and the yellow powder so obtained is treated in the following manner: It is washed through a strainer first with undiluted alcohol, then with water to which is added carbonate of sodium and sodium thiosulphate in proportion of about 1 in 100, and finally it is washed with distilled water until no longer a reaction is produced in the wash-

water either through the influence of starch paste or nitrate of silver. The chemical substance so obtained is once more washed with a mixture of alcohol and ether, and then dried on glass slabs at a temperature of 35° C.

The products made under the above patents are sold as Brom-Eigon (containing about 11 per cent. of bromine), Pepto-Brom-Eigon, Jod-Eigon (containing about 20 per cent. of iodine), Jod-Eigon-Natrium (containing about 15 per cent. of iodine), and Jod-Pepto-Jod-Eigon. Eigon soap is made containing 5 per cent. of jod-eigon; also an ointment and tablets.

Eka-iodoform.

Sterile iodoform.

Trade-mark: No. 206418 ("Eka" for iodoform), registered in 1897 by the Chemische Fabrik auf Actien vormals E. Schering, Berlin. Removed from the Register in 1911.

Patent: No. 11228 of 1897, "The Production of Sterile Iodoform," granted to the above-named company. The patent expired in 1901.

The process consists in incorporating with the iodoform small quantities of polymerised formic aldehyde.

It is sufficient to mix intimately the iodoform with 0.05 to 0.25 per cent. of paraformaldehyde in order to obtain the lasting sterility of the preparation.

It is stated that paraformaldehyde or trioxymethylene ("Beilstein," I., 911) or α-trioxymethylene ("Beilstein," I., 911), as well as a solid polymeric prepared in a special manner (see "Paraform"), can be used.

Empyroform.

Formaldehyde-tar preparation in powder form. Used in the treatment of eczema.

Trade-mark: No. 254917, registered in 1903 by the Chemische Fabrik auf Actien vormals E. Schering, Berlin.

Patent: No. 12282 of 1903, "The Manufacture of Products Useful in Therapeutics," granted to above-named company. The patent expired in 1907.

The method of preparation given in the specification of the patent is as follows:

Seven hundred grams of a 40-per-cent. solution of formic aldehyde is added to 700 grams of oleum rusci or oleum fagi and the mixture heated to boiling; the boiling liquid is then poured into 1.5 kilos. of raw hydrochloric acid. After cooling the liquid is poured off from the solidified mass, which is well washed with water. It is then powdered and again washed until the water flows away colourless and no longer has an acid reaction.

Two other methods of preparation are given, in which paraformaldehyde and chlormethyl alcohol are used respectively in place of formic aldehyde.

Epicarin.

Condensation-product of chlormethyl salicyl aldehyde with β-naphthol. Antiseptic in scabies, etc.

Trade-mark: No. 225437, registered in 1899 by the Farbenfabriken vormals Friedrich Bayer & Co., Elberfeld. Registration renewed in 1913.

Patents: No. 17118 of 1899, "The Manufacture or Production of Chemical Compounds of the Aromatic Series," granted to the above-named company. The patent lapsed in 1905. The United States patent is 671622 (1901).

The claims in the specification include a large number of chemicals, the following being one of the examples given:

A solution of 190 parts of chloromethyl salicylic acid in 500 parts of glacial acetic acid is mixed with a concentrated solution of 144 parts of β-naphthol in the same solvent. The mixture is heated at about from 100° to 120° C., until the development of hydrochloric acid, which takes place during the reaction, has ceased. After cooling a crystalline mass will have separated, which is filtered off and recrystallised from glacial acetic acid. It will have the appearance of white leaves, which melt at 198° C.

Eston.

Basic aluminium acetate. Antiseptic powder for wounds, etc.

Trade-mark: No. 295927, registered in 1907 by the Chemische Werke Fritz Friedlaender G.m.b.H., Berlin.

Patent: No. 8576 of 1907, "Process for Manufacturing Insoluble Aluminium Acetate," granted to the above-named company. The patent lapsed in 1911.

Three examples of the method of manufacture are given in the specification, the following being (I.):

Thirty-one kilos. of dry commercial alumina hydrate is ground together with 43 kilos. of glacial acetic acid, and the paste formed is allowed to stand in a covered vessel. Next day the mass will have set to a solid crystal cake: this is coarsely pulverised and then heated in a closed vessel to 100°-150° until the smell of acetic acid has entirely disappeared.

Forman.

Chlormethyl menthyl ether. Used in the treatment of catarrhal affections of the respiratory passages.

Trade-mark: The word "Forman" is not registered, but "Formawn" (263068) and "Formarn" (264432) were registered in 1904 by Karl August Lingner, Dresden and London.

Patent: No. 5293 of 1902, "Manufacture of and Relating to a Menthol Derivative," granted to Karl August Ferdinand Lingner, Dresden. The patent lapsed in 1906.

The method of manufacture is thus given in the specification:

One hundred and sixty grams of menthol is mixed with 90 grams of a 35-per-cent. formalin solution, and the mixture is brought into solution by carefully heating on the water-bath. Into the well-stirred mixture is introduced during two to three hours an excess of dry hydrochloric-acid gas. Two layers will form, the upper of which is decanted off and dried for twenty-four hours over a bed of calcined sulphate of soda. After filtration and pressing of the desiccating-material, the limpid oil is freed from the greater part of the dissolved hydrochloric acid by injecting into it *in vacuo* a current of dry air. By repeating this operation at a temperature of 50°-60° C. the remainder of the hydrochloric-acid gas is caused to escape.

Mushrooms as a Side-line.

It has been suggested that as a means of augmenting our food-supplies we ought to develop the cultivation of mushrooms. Our Italian Allies are far ahead of us in this respect, but, curiously enough, our edible *Agaricus campestris* is neglected by them, while hundreds of baskets of what we commonly call toadstools are daily marketed in Rome. There is even an inspector appointed to see that no pernicious fungus is sold. It may not be out of place, then, considering our botanical education, to suggest that chemists so inclined should take up the suggestion, and cultivate and even sell the mushroom. The modern "Cash Chemist" may smile at the suggestion, but at many of our best retail establishments are not various species of *Agaricus* included in the stock? Of these the most common is the puff-ball, resorted to now and then as a styptic.

The edible mushroom is common in dry pastures after rain. Its characters are as follows:

The stalk is short, solid, of the thickness of the finger, and white; it is surrounded with an annular membranaceous volva. The pileus when young is white, hemispherical, fleshy, and covered with lacerated patches; the rim inflected; the gills are of a rose-pink colour, arched, and nearly of equal length. In decay the volva drops off, the pileus becomes flat and smooth, and the gills assume a black colour.

To those who would like to take up the cultivation of the mushroom the following hints may prove useful: Gardeners sometimes propagate mushrooms from the spores, at other times from the roots; by so doing they may be produced at all seasons. To effect this beds are made like the ridge of a house, composed of alternate layers of horse-manure and earth covered with litter. In the surface of these beds, when they have acquired a sufficient degree of heat, is planted the spawn (gardeners' language), or white radicles found at the roots of the fungus, which produce tubercles in the manner of the potato, or else the gills may be cut and either sown with the spores in them or infused in water, and the infusion sprinkled on the beds. Either method will succeed, but planting the spawn is the usual. The growth is rapid, and even as a hobby is intensely interesting. Any other fungus may be similarly cultivated.—*Agaricus.* (192/19.)

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Association Affairs.

ENGLAND.

Bath.—The report of the Pharmaceutical Committee for 1914-15 indicates that during the year a scrutiny of the 1913 prescriptions was carried out, but the Panel Committee, on considering the statistics laid before them, could find no evidence of extravagant prescribing. The deficit on the Drug Fund for 1913 has been reduced by the latest credits from the Commissioners to 15*s.* 3*d.* In regard to 1914, the returns for the emergency settlement show that 1,843*l.* is available. Against this chemists' bills amount to 1,836*l.*, *plus* 25*l.* for administrative expenses of the Pharmaceutical Committee. The deficit is therefore 18*l.* These figures do not include the *ex gratia* allowance in respect of war scheduled drugs. For the first half of 1915 the following particulars are to hand: Chemists' bills, 1,023*l.*; paid on account, 757*l.* (74 per cent.); number of prescriptions, 33,225 (599 more than in the corresponding period of 1914); average cost 7.39*d.* On the outbreak of war steps were taken to conserve stocks of drugs likely to become scarce, and representations were made to the Panel Committee in regard to economy in prescribing. The Committee, as also did the Panel Committee, agreed to contribute 25 per cent. of the cost of joint checking of prescriptions, but the Insurance Committee could not agree to pay the remaining 50 per cent. and did not favour the scheme. Representations made to the Panel Committee regarding the use of stock mixtures were successful in inducing them not to put the stock mixture clause in force. The Committee was obliged to consent to the use of tap-water in dispensing, but, on behalf of the Committee, Mr. D. J. Williams, of the Bath College of Pharmacy, was requested to draw up a report on the unsuitability of the Bath tap-water for dispensing. This report was well received by the Panel Committee, who supplied each of its members with a copy and also a recommendation that its suggestions should be adopted in prescribing.

Croydon.—An arrangement has been concluded between the Panel, Insurance, and Pharmaceutical Committees whereby emergency drugs and dressings will be paid for at a flat rate of 1*s.* per annum per 100 insured persons.

Herefordshire.—The Pharmaceutical Committee met on August 9, Mr. G. Hart (Ross) presiding. The 1914 accounts were checked and passed for payment. Payment in full will be made, and there were no cases of over-prescribing. Attention was drawn to certain anomalies in the Drug Tariff, and it was decided to point out to the Insurance Committee that the prices of tablets of certain drugs which have increased in price have not been increased on the same basis as the drugs themselves; also to request an increased allowance for bottles on account of increased cost. Messrs. Shackleton, Fortnam, and Donaldson were elected to the Pharmaceutical Service Sub-Committee, and it was resolved to request the Commissioners to nominate Mr. Hart as the representative of chemists on the Insurance Committee.

Leeds.—Chemists have been paid 25 per cent. of the balance due for 1914.

Middlesex.—The annual report of the Panel Committee for 1914-15, dealing with the Drug Tariff, states that the Tariff has never been submitted to the Committee in time to permit of its proper examination. The Committee has protested against this, as the members are convinced that the Tariff still contains anomalies which it would be advantageous and economical to correct. The Committee has been unable to recommend the adoption of a special Pharmacopœia, but has prepared "a list of some twenty prescriptions of an economical kind." The Committee investigated a number of cases of alleged excessive prescribing submitted by the Pharmaceutical Committee, and ten practitioners were recommended for surcharge.

Portsmouth.—The local Formulary, recently issued, contains fifty-three formulas and several designations for gargles, liniments, lotions, mixtures, pills, tablets, and ointments, one eye-wash, one glycerin, and one powder. The price of each preparation, including dispensing and copying fee, is given. A number of notes for prescribers are also included.

Sheffield.—The Pharmaceutical Committee met on August 13, Mr. H. G. Williams presiding. It was decided to rescind the motion dealing with uniform quantities of panel Formulary mixtures (*C. & D.*, July 17, p. 51), and to inform chemists that they will be required to dispense panel Formulary mixtures in the quantities ordered. Payment to the Pharmaceutical Society of 11*s.* 6*d.* for election-expenses was passed. It was resolved to investigate the prescriptions of three medical practitioners, with a view to submitting them to the Panel Committee under Regulation 40. It was decided to apply for 30*l.* for administrative expenses. It was agreed that 1½*d.* per oz. should be allowed for No. 19 of the panel Formulary in future, and 2*d.* per oz. for No. 100. The Committee decided to inform the Insurance Committee that, after further consideration, the Committee is unable to agree to recommend chemists to accept the emergency settlement for 1914 (*C. & D.*, August 7, p. 56). A conference of representatives of the Insurance, Panel, and Pharmaceutical Committees was held to further consider the joint scheme for the checking of prescriptions. It was stated that a letter had been received from the Commissioners, suggesting that the expenses should be borne in equal proportions, and that they could not sanction the Insurance Committee contributing more than one-third of the cost. The Panel Committee is unwilling to contribute to the extra expense, as the time is inopportune to increase expenses. They feel, further, that the effect of the reduction in the average cost of prescriptions from 9*d.* to 6*d.* should be awaited, and that, generally speaking, the price is reduced to a point at which it would be inadvisable to go further. Any special case of extravagance could be reported by the checker under the present system. It was agreed that these views should be placed before the Commissioners.—It has been decided that the reduced charges for mixtures placed under the stock-mixture clause will come into operation on September 1.

Shropshire.—The Panel Committee has decided to pay one-third (about 25*l.*) of the official prescription-checker's salary.

West Bromwich.—With the exception of one or two small accounts the emergency settlement has been accepted by chemists on this panel, and by this time the majority will have received their cheques.

Westmorland.—At a meeting of the Insurance Committee on August 11 the Medical Service Sub-Committee reported consideration of a complaint that a panel practitioner had supplied medicines to a patient on his panel, within the mile area, at the patient's request, and had charged the patient's employer for the medicine thus supplied. The Sub-Committee recommended that the question of the legality of the practitioner's action be submitted to the Insurance Commissioners. Mr. Vogt (chemist) directed attention to a statement in the report that the patient had stated in evidence that he asked the doctor to supply the medicine, as he did not consider that that supplied by the chemist was doing him any good. Mr. Vogt thought that was a reflection on the medicine supplied by the chemist and they (the chemists) could not let it rest there. The Chairman said that any new complaint must be initiated by the chemist concerned. The recommendation was adopted with slight modification.

Notes.

London Insurance Pharmacopœia.—The London Insurance Pharmacopœia, to which reference was made in the *C. & D.* of August 7 (p. 47), can be obtained from the offices of the London Insurance Committee, 5 Chancery Lane, W.C., price 1*s.* The Pharmacopœia contains over one hundred formulæ and designations for enemas, gargles, linctuses, liniments, lotions, mixtures, pills, ointments, etc., and includes notes for prescribers, a table of the more important alterations in strength and dose in the B.P. 1914, imperial and metric equivalences, and notes on some changes in the B.P. 1914. Chemists will note that prescriptions will only refer to formulæ in the book when the initials L.I.P. are specified.

Patent Medicines in Guatemala.—The Board of Trade are in receipt of translation of a notice which appeared in the "Guatemalan Official Gazette" of June 18 announcing that as from September 25 the sale of all proprietary medicines will be prohibited unless they have fulfilled the requirements of Article 26 of Decree No. 621 of 1902. The article in question provides that any medicine or secret composition may only be sold in Guatemala if the Board of Directors of the Medical and Pharmaceutical Faculty, on examination of the medicine, approve its utility from the point of view of its medicinal effect. The notice further states that a list of medicines of secret composition the sale of which has been authorised by the Faculty, and the importation of which is permitted, will be sent in due course to the Director-General of Customs.

Trade Notes.

Plasmon Oats is an all-British product, states an advertisement in this issue. It is a very suitable line for sale by chemists.

The Fabra Co., Ltd., 24 Minories, London, E., invite inquiries for bromides, salicylates, formaldehyde, Epsom salts, and potassium permanganate. These and other chemicals are supplied for prompt and forward delivery.

"Pax" Insecticide.—C. Hand & Co., 12 Moor Lane, London, E.C., are the sole distributing agents for the United Kingdom for the "Pax" insecticide, which is employed for destroying flies and all vermin and insect pests.

Comité Belge.—The Belgian Committee "Pour le Commerce avec les Allies" has moved into new offices at 43 and 44 Shoe Lane (Pontifex Buildings), London, E.C. A reading-room has been opened for the convenience of Belgian business men.

Huxley's Syrup.—The advance in the cost of raw material has compelled the Anglo-American Pharmaceutical Co., Ltd., Croydon, to advance the wholesale price of Huxley's syrup of acid glycerophosphates. The new prices are given in the company's advertisement.

Roboleine.—Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, London, E.C., make an announcement to dispensing contractors, under the National Insurance Act, in reference to Roboleine and malt and oil. Roboleine is packed in 1-lb. containers, wholesale price 12*s.* per dozen.

Hot-water Bottles.—Arthur Berton, Ltd., manufacturers of surgical dressings and chemists' sundries, 15 and 17 Worship Street, London, E.C., advertise the "Perfectum" hot-water bottle in this issue, and invite chemists to send for a sample. Douche-cans are also stocked in great variety by this company.

American Drugs.—McKesson & Robbins, 91 Fulton Street, New York, U.S.A., offer on advantageous terms American crude drugs and fine chemicals. The firm are foreign distributors of the products of the New York Quinine and Chemical-works, Ltd., who manufacture quinine, codeine, morphine, acetanilid, etc.

Chemical-products.—The Keene Co., manufacturing chemists, 50 Gray's Inn Road, London, W.C., inform us that they are in a favourable position to quote for and supply American-made chemicals, such as salicylates, acetylsalicylic acid, bromides, hyposulphite of soda, hypophosphites, glycerophosphates, phenacetin, and formalin.

Exit Leichner.—H. Thomas & Co., whose distributing agents are Lyall, Willis & Co., 39 St. James's Street, London, S.W., manufacture every variety of theatrical toilet and make-up materials. These are well adapted to replace the German products, and chemists with a trade among actors should obtain an agency for Thomas's goods.

The Supply of Spirit.—James Burrough, Ltd., Cale Distillery, Hutton Road, Lambeth, London, S.E., are now able to supply spirits of wine and absolute alcohol to pharmaceutical chemists, chemists and druggists, medical practitioners, and to laboratories for research-work, without the formality of a requisition note, in quantities of not less than 2 gals.

The Edinburgh Central School of Pharmacy has been taken over by Mr. A. A. W. Cuthbertson, Ph.C., who has been assisting Mr. W. B. Cowie for some time. Mr. Cuthbertson, who has had an excellent preparation for the work which he has taken in hand, was trained at the Edinburgh Central School of Pharmacy. Mr. W. B. Cowie is devoting his whole attention to the manufacturing of pharmaceutical chemicals, including the specialities Idogen and Bromogen.

"Enule" Veterinary Bougies.—Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C., send us a sample of the "Enule" veterinary bougies of corrosive sublimate which are used for treating vaginitis in cattle, particularly contagious granular or verrucose vaginitis, and all cases of balanitis, also for preventing infection after difficult parturition. These bougies, which are 2½ in. long and contain each ⅔ gr. of corrosive sublimate, are more convenient than the antiseptic irrigations formerly employed. They are issued in boxes of twelve.

Insurance against Air Raids.—We have received a number of inquiries regarding the liability of tenants to insure the buildings which they hold on lease against air raids or bombardment by Germans. Since the Government scheme has been established the liability which the Government previously assumed is not accepted, so that the question of insurance has become a matter of considerable importance. The War Risks Insurance Office advertises the rates of premium for certain classes of risk in an announcement in this issue, and supplies other particulars on application.

Obliging a Neighbour.

A true story, vouched for by a Contributor (131/2).

The pavements and dusty streets of Ourtown glared pitilessly white in the midsummer sunshine, and business was quiet enough for day-dreams. There would be a breeze over the links this half-holiday, and as all the chemists of Ourtown are good golfers as well as good pharmacists, there was something to look forward to. Mr. Green, sitting behind the desk and window of his front shop—beg pardon, Pharmacy—had just extracted the last bit of reading from his morning paper. A tall, stupid-looking youth, of thick articulation and shuffling gait came in, and laid a 1-oz. stoppered bottle and a piece of paper on the counter without remark. On the paper was written, "*Please oblige with Acid. Hydrocyan. dil.* ℥j.—*W. Black.*" Mr. Black, Mr. Brown, and Mr. White were Mr. Green's brother chemists, and all were on friendly terms, ready to oblige one another when occasion offered, as chemists should always be. So Mr. Green filled the bottle, handed it back to the messenger, and waited for something to turn up. In about half an hour steps were heard approaching, and Mr. Black himself entered Mr. Green's pharmacy.

"Did a lad call here," he asked, "for an ounce of prussic acid?"

"He did," said Mr. Green, "and I gave it to him."

"*He has never come back with it,*" replied Mr. Black.

The situation thus became suddenly startling. For here was an ounce of prussic acid labelled in Latin wandering about Ourtown. What was to be done? How could they get on the track of the fatal bottle? These rivals in business were brothers in distress. It seemed from Mr. Black's explanation that the parish doctor had written a prescription for a pauper patient, who was instructed to send it to Mr. Black, whose turn it was to do the parish dispensing. One of the ingredients was acid. hydrocy. dil., and as Mr. Black happened to have run out of it and he was single-handed, he wrote the order and asked the lad who came with the prescription to take it to Mr. Green and bring the bottle back. But to the bucolic mind it appeared that when he had got the bottle from Mr. Green he had got the prescription made up!

The first thought of Black and Green was to get at the patient. Never was the telephone-handle more vigorously turned. "Is that the Parish Council office?" "Yes," came back a faint voice. "Have you a pauper patient on your books called Mary Jones?" "Yes." "What is her address?" "Wait, and I'll see," came the answer of the unperturbed one at the other end. How maddeningly calm it sounded; how despairingly long the seconds seemed until "Her address is 3 Sunflower Lane," came the reply. The two chemists started for it at a run, heedless of the steep street they had to climb, and were soon "winded." Their progress was a succession of runs, trots, and walks, but at length, with scarcely a breath left, they reached the lane, and, knocking at the door, they gasped, "Does Mrs. Jones live here?" "There's no Jones in this house," was the reply, and the hearts of the pharmacists sank to their boots. What was to be done now? Every minute added to the risk of a catastrophe. But a ray of light shone on them when a voice was heard from the room, "It'll be Mary Jones they want. She stays at the back, the first door on the left." The directions were explicit, and there was no time for ceremony. The door of the humble abode was opened without any preliminary knock. On the bed lay the patient, and on the mantelpiece stood the fatal bottle unopened. "I was just waiting till the doctor came, to see how I was to take it," said a feeble voice from the bed.

* * * *

The chemists of Ourtown had their round that afternoon. They all played well, but never did Mr. Green drive a longer ball, and never did Mr. Black hole such phenomenal putts. And when they halved the last hole in 3 (it was a bogey 4), they both agreed that only acid. hydrocyan. dil. could have enabled them to do it.

Mr. Victor H. Iddon, chemist and druggist, late of Accrington, has taken over the business of Mr. L. Sherwood Selle, chemist and druggist, 309 Holderness Road, Hull, and will carry it on under the title of Selles, Modern Chemists.

"The Art of Dispensing."—A treatise on the methods and processes involved in compounding medical prescriptions, with dictionaries of incompatibles, new remedies, English and foreign prescription terms, etc. Ninth edition. By Peter MacEwan, Editor of The Chemist and Druggist. Price 6*s.* net, by post 6*s.* 4*d.*, from the *C. & D.* Book Department, 42 Cannon Street, London, E.C., or leading wholesale houses.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., August 19, 6.30 p.m.

A FAIR amount of business continues to be done in chemicals and drugs, both on export and home account, with prices as a rule favouring sellers. Among chemicals there has been a better demand for American and Canadian potashes at advancing prices, owing to the scarcity of caustic and carbonate of potash. Arsenic is dearer; copper sulphate is extremely quiet; bleaching-powder and caustic soda are in good demand, but makers are fully sold. In regard to fine chemicals, the supplies available are gradually becoming smaller day by day; at the present time there is practically nothing coming forward from Switzerland; in fact there is a temporary deadlock in commerce between that country and the United Kingdom. Many export licences to private traders have been refused, the Government declaring that the commercial position is under consideration. Quinine has been active at advancing prices. Hydroquinone, acetylsalicylic acid, salol, and sulphonal are selling at higher rates owing to scarcity. Cream of tartar and citric acid are on the easy side, owing to the unseasonable weather. Among essential oils lemon is cheaper, but has recovered from its lowest; orange oil is easier; cassia and star anise oils are on the easy side, very fair arrivals having taken place. New crop American peppermint oil is offering at easier prices. Sandalwood is very scarce and dearer, as is essential oil of bitter almonds.

Higher	Firmer	Easier	Lower
Almond oil essent. bitter	Camphor (Jap. ref.)	Bergamot oil	Ammonia sulphate
Arsenic	Coconut oil	Cassia oil	Ipecacuanha (East Ind.)
Glucose	Menthol (c.i.f.)	Castor oil	Lemon oil
Hydroquinone	Mint oil (Jap. c.i.f.)	Citric acid	Linseed oil
Potashes	Salol	Cottonseed oil (crude)	
Quinine	Sulphonal	Orange oil	
Sandalwood oil		Quicksilver	
Sweet birch oil		Rape oil	
		Santonin	

Cablegram.

New York, August 18.—Business in drugs is active. Opium is lower at $6.90 per lb. for druggists'. Menthol is dearer at $2.60. Peppermint oil in tins is cheaper at $1.50. Belladonna-root has been advanced to $1.50, and leaves to $1.25. Cartagena ipecacuanha is dearer at $2.25, and quinine has been advanced to 33c. per oz.

London Markets.

Acetate of Lime remains very firm, with sellers in U.S.A. offering very sparingly.

Acetic Acid. Spot price is from 90*l.* to 92*l.* 10*s.* for 99 to 100 per cent. glacial.

Acetylsalicylic Acid is becoming very scarce again and dealers are able to extort very high prices, which are, however, stimulating an increase in production.

Agar-agar.—Sellers of No. 1 Kobe strip quote 2*s.* 1½*d.*, and No. 3 1*s.* 4½*d.* c.i.f.

Almond Oil.—Essential bitter from true almonds has advanced to 32*s.* per lb. and s.a.p. to 35*s.* per lb. The essential oil distilled from peach or apricot kernels is extremely scarce.

Aloes.—Curaçao aloes is becoming scarce, a few good livers offering in cases at 72*s.* 6*d.*, half-turned livery at 70*s.* down to 65*s.* for capey. Bombay Socotrine in kegs are also very scarce, and up to 80*s.* has been paid for good bright hard in kegs.

Ammonia Sulphate is easier at 14*l.* per ton net, naked at works, London, for 25-per-cent. ammonia; Hull, 24-per-cent., is 14*l.* 10*s.*; Liverpool, 14*l.* 12*s.* 6*d.*; Leith, 14*l.* 15*s.* per ton in bags f.o.b., less 3½ per cent.

Anise Oil (Star) is steady, with sales of "Red Ship" brand for September-October shipment at 3*s.* 2½*d.* per lb. c.i.f.; spot is 3*s.* 7½*d.*

Arsenic is dearer at from 18*l.* 10*s.* to 19*l.* 10*s.* per ton for best Cornish powder.

Balsam Canada is offered on the spot at 4*s.* per lb. net.

Barbitone.—Business has been done at 41*s.* to 42*s.* per lb.

Benzoin.—About 200 cases Sumatra have arrived at the Cutler Street drug-warehouse.

Birch Oil, Sweet (ol. betulæ lentæ) has advanced to 10*s.* 6*d.* per lb. net.

Bromides are only offered by the makers in very retail quantities, and among dealers business is strictly limited at the present inflated prices.

Camphor (Refined).—Business has been done in Japanese 2½-lb. slabs at 1*s.* 5*d.* per lb. c.i.f. for August-September and September-October shipment; ¼-oz. tablets have been sold for September-October shipment at 1*s.* 6*d.* c.i.f.

The exports from Japan during May were 303,801 kin, valued at 270,743 yen; during the five months ended May 31 the exports and destinations were as follows:

To	1913 Kin	1914 Kin	1915 Kin
British India ...	414,432	324,656	541,019
Great Britain ...	106,466	225,676	215,228
France	34,887	78,617	293,630
Germany	165,882	177,468	—
U.S.A.	278,070	202,198	221,969
Australia	26,021	42,659	89,488
Other countries ...	104,832	108,299	157,801
Kin	1,130,590	1,159,573	1,519,135
Yen	1,047,144	1,036,762	1,362,392

The exports of *Camphor oil* during the above period were 600,024 kin, against 638,391 kin and 478,541 kin in 1914 and 1913 respectively.

Cascara Sagrada is offered at 52*s.* 6*d.* per cwt. spot for 1913 crop.

Cassia Oil.—Business has been done in 80 to 85 per cent. c.a. at 2*s.* 9*d.* per lb. c.i.f. for August-September and September-October.

Chiretta of fair quality is obtainable at 7½*d.* per lb., and slightly less for quantity.

Citric Acid.—Market is quiet, this being largely due to the unseasonable weather; sellers quote 3*s.* 3*d.* to 3*s.* 4*d.* per lb.

Cloves are very quiet, Zanzibar on spot offering at 6⅜*d.* to 6½*d.* per lb.; arrival and delivery prices are nominal.

Codeine.—Second-hands offer the pure crystals at slightly below 22*s.* 6*d.* per oz.

Cod-liver Oil.—Our Bergen correspondent writes on August 9 that no business took place during the week, and the quotation for finest medicinal quality remains unchanged. In London a limited quantity is offered on spot at about 350*s.*, and for prompt shipment from 330*s.* to 350*s.* c.i.f. is quoted. Business has been done in the region of 330*s.* c.i.f. terms for a good brand.

Johan Thesen & Co., Bergen, inform us that their firm has not taken part in the formation of any combination in the cod-liver oil market, and that they are outside such combination.

Copper Sulphate is very quiet at the unaltered rate of 26*l.* 5*s.* per ton for the usual Liverpool brands.

Cream of Tartar.—Supplies of 99- to 100-per-cent. powder can be had at 190*s.* per cwt.; unseasonable weather has affected consumption.

Dragon's-blood.—Altogether there are 32 cases on the way to the drug-warehouse.

Eucalyptus Oil.—The London branch of an Australian house has received a cable to the effect that, owing to an extensive demand from the Commonwealth military authorities, the quantities of eucalyptus oil of high grade available for export will probably be small.

Glycerin.—The British Government have issued a circular temporarily stopping all deliveries of glycerin in this country. The note indicates that application by refiners to deliver their contracts may be sent in to the Government, and so gives some indication that there will be some resumption of ordinary conditions shortly. The official price of British make is 104*l.* per ton for chemically pure, s.g. 1.260, in 56-lb. tins in cases and 100*l.* in drums on 5-ton contracts.

Gum Acacia.—It is reported that 750 tons of Sudan sorts have been damaged by fire on the *Colemere.*

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Honey.—The arrivals comprise over 1,600 packages from Jamaica to London, and 1,318 cases from San Francisco to Liverpool.

Hydroquinone is extremely scarce, and there appears to be no forward quotations. Spot holders are asking a considerable advance—viz., 25*s.* per lb.

Insect-flowers.—In the absence of Dalmatian, consumers have to fall back on Japanese, a quantity of which now landed have been sold to arrive. There is a good inquiry, and probably 220*s.* would have to be paid on the spot.

Ipecacuanha.—At an auction held in the brokers' saleroom on Wednesday the new arrival of 40 bales East Indian were offered, and 15 sold at from 13*s.* to 13*s.* 2*d.* (one lot 13*s.* 3*d.*) for mostly greyish small to medium to plump native-picked root. The remaining lots were held firm at 13*s.* At the previous public sale in May last the average price paid for 41 bales was about 14*s.* 6*d.* With the exception of Cartagena, there are very fair stocks of ipecacuanha available in London.

Jalap testing 9-per-cent. resin is offered at about 9*d.* and 11-per-cent. at about 11½*d.* per lb.

Kola.—An arrival of 69 bags has taken place from Jamaica; they are badly wanted for export orders.

Lemon Oil.—With good arrivals taking place spot market is cheaper, good quality offering at from 4*s.* 6*d.* to 5*s.*; in one instance 6*s.* is asked. The arrival market, after being lower, is firmer at from 4*s.* 3*d.* to 4*s.* 9*d.* c.i.f.

A Sicilian advice, dated August 7, states that the dulness of our market, to which we referred in our last, has further developed during the past fortnight. The reasons for the decline remain unchanged and are—that those interested in the maintenance of higher prices are not able to sustain their "bull" tactics if they are not helped by a supporting demand from abroad. . . . The market is now much easier.

Liquorice-juice.—In further reference to the advance in liquorice-juice noted in last week's *C. & D.*, it should be understood that the prices given refer to the stick and block juice of ordinary qualities. The trade price of Solazzi sticks is about 20*s.* per cwt. higher than that mentioned in our Trade Report.

Menthol.—Sellers to arrive are asking an advance, offering Kobayashi for October-December shipment at 9*s.* c.i.f. Kobayashi on spot is quoted at 8*s.* 11*d.* to 9*s.* The exports from Japan during May amounted to 28,476 kin, valued at 164,088 yen, and for the five months ended May 31 the exports were as follows:

	1913	1914	1915
Kin	117,420	191,140	183 090
Yen	1,634,712	1,320,470	1,012,040

The destinations during the five months were as follows:

To	1913 Kin	1914 Kin	1915 Kin
British India	4,734	7,601	13,150
Great Britain... ...	33,397	36,372	43,631
France	18 098	15,126	31,532
Germany	40,548	74,007	—
U.S.A.	15,657	52,432	76,283
Other countries ...	4,986	5,602	18,494
Kin	117,420	191,140	183,090

Mercurials.—There are large orders for mercurials in the market which cannot be filled. Supplies of American are obtainable in limited quantities at about the Convention rates.

Metol.—Business has been done at 40*s.* per lb.

Mint Oil.—Japanese dementholised is firmer to arrive, with buyers of Kobayashi at 2*s.* 8*d.* c.i.f., sellers asking 2*s.* 10*d.* for September-October shipment. The exports from Japan during May amounted to 52,010 kin, valued at 110,906 yen. During the five months ended May the exports were as follows:

	1913	1914	1915
Kin	161,756	193,331	205,139
Yen	636,722	615,639	409,722

Neroli Oil.—The new French crop is in better demand and offering at very favourable prices compared with previous seasons, but advices from France indicate that prices are likely to go dearer.

Oils (Fixed).—*Linseed* is lower on the week, pipes on the spot closing at 23*s.* 9*d.* and barrels at 24*s.* 6*d.*, forward 24*s.* 1½*d.* to 25*s.* 3*d.*, as to position. *Cotton-seed* is easier at 28*s.* 3*d.* for crude in pipes, 30*s.* 9*d.* for pale refined in pipes, and 35*s.* to 36*s.* for sweet refined in barrels, all spot. Ceylon *Coconut* is firmer at 42*s.* to 43*s.* in hogsheads and 41*s.* to 42*s.* in pipes; Cochin is 45*s.* to 48*s.*; London pressed is also firmer at 33*s.* 3*d.* to 33*s.* 9*d.* *Colza* is easier at 34*s.* to 35*s.* for ordinary brown, naked, on spot, and 36*s.* 6*d.* to 38*s.* for British refined in barrels. Lagos *Palm* is 31*s.* spot and 28*s.* 6*d.* to 28*s.* 9*d.* in Liverpool. *Soya* is lower at 20*s.* 9*d.* c.i.f. arrived in cases and 21*s.* on passage. Hull (spot) is 1*s.* cheaper at 23*s.* per cwt. *Castor* on spot is 37*s.* 9*d.* for first pressing in barrels on spot, and in Liverpool good seconds Calcutta is quoted at from 3⅞*d.* to 4¼*d.* per lb. spot.

Opium.—H.M. Consul-General at Ispahan reports, under date of June 22, that the 1915 opium crop in that district is likely to prove considerably less than last year's harvest on account of hailstorms and a plague of black and white blight, the latter resulting from an exceptionally mild winter with insufficient rains. Farmers, however, encouraged by last year's crop, had planted a much wider area with opium than usual. The quality of this year's opium is said to be up to the average and the colour somewhat darker. The exports of opium from Arabistan during the past three years were as follows:

To	1911-12 Tons	1912-13 Tons	1913-14 Tons
United Kingdom ...	28	40	13
Belgium	—	2	—
Hong Kong	—	19	1
China	15	—	—
Singapore	52	23	58
Other countries ...	—	—	1
	95	84	73

Pepper is steady but quiet, Singapore offering at 5¾*d.* per lb. for fair black, and Lampong at 5¾*d.* spot; August-September shipment of Singapore has been sold at 5½*d.* c.i.f. Sellers of *White* Singapore quote 8⅞*d.*, basis fair, and Muntok at 9¾*d.*

Peppermint Oil.—New crop American tin oil is quoted for autumn shipment at 7*s.* per lb. c.i.f in several directions, the spot price being 7*s.* 3*d.*; H.G.H. is quoted 12*s.* 6*d.* London terms.

Phenacetin. Business has been done at up to 28*s.* 6*d.* per lb., and 29*s.* is asked in some quarters.

Pimento.—Spot sellers ask 1 13/16*d.* per lb. and 15*s.* 6*d.* per cwt. c.i.f.

Potash Iodide.—The exports from Japan during May were 9,516 kin, valued at 74,964 yen, and for the five months ended May 31 the exports were:

	1913	1914	1915
Kin	28,687	36 255	71,566
Yen	167,121	235,057	535,096

There were no exports of *crude iodine* during May, the exports during the five months ending May 31, 1915, were 1,185 kin, against 9,133 kin and 6,357 kin in 1914 and 1913 respectively.

Potashes.—Montreal ashes are much dearer, 90*s.* per cwt. being asked for first Government brand on the spot. There is a good inquiry.

Quicksilver.—The exportation to all destinations has been prohibited by an Order in Council. Market has an easier tone at from 17*l.* 17*s.* 6*d.* to 18*l.* 2*s.* 6*d.* per bottle.

Quinine.—Attention has again been directed to this market, which is now in a much firmer position. Makers are reluctant to sell, and from second-hands a large business has been done at prices rising from 1*s.* 6½*d.* up to 1*s.* 8*d.* per oz. for the usual brands, market closing with sellers at the latter price. Sales include 55,000 oz. old Java at 1*s.* 6½*d.* There are large Continental orders in the market, but it is doubtful if they can be executed. To-day sales have been made at 1*s.* 8¼*d.* and October 1*s.* 9*d.*

Rhubarb.—The recent arrivals make a material addition to the stocks, but they are mostly of lower grades.

Salicylates.—The quantities available appear to be sufficient for normal requirements, and it is believed prices have reached their highest.

Salol remains very scarce, but further supplies are expected in two or three months. From 22*s.* 6*d.* to 23*s.* per lb. has been paid.

Sandalwood Oil remains very scarce and in strong demand, leading English distillers asking 29*s.* to 30*s.* per lb. for finest, according to quantity.

Santonin is obtainable at about 145*s.* per lb., but there is a difficulty of obtaining supplies from Russia, and the price may go higher.

Sarsaparilla.—Consignments amounting to 52 bales, chiefly grey Jamaica, are close at hand.

Shellac.—Quiet but steady, with TN offering on spot at 62*s.*, good 63*s.* to 64*s.*, and fine Orange 77*s.* 6*d.*; free AC Garnet at 60*s.*, and GAL at 59*s.*

Soda Hyposulphite is in steady demand at the unchanged rates given last week.

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Soda Nitrate is firm at 14*s.* for refined and 13*s.* 6*d.* for ordinary on the spot. Liverpool quotes 13*s.* 3*d.* and 12*s.* 7½*d.* net cash respectively.

Sulphonal.—There has been a revival in demand, but only small supplies are obtainable at about 22*s.* to 23*s.* per lb.

Tartaric Acid is quiet, probably owing to the unseasonable weather; the position, however, is still regarded as strong at from 2*s.* 2½*d.* to 2*s.* 3*d.* on the spot.

Thymol.—Spot supplies are exhausted, and it is difficult to get offers from neutral countries.

Turpentine.—American closes firmer at 34*s.* per cwt. on the spot.

Vanillin is quoted at from 33*s.* to 34*s.* per lb.

Wax, Bees'.—Current quotations are: Bleached Calcutta, 9*l.* to 9*l.* 2*s.* 6*d.*; yellow, 6*l.* 5*s.* to 6*l.* 10*s.*; East African, 7*l.*; Jamaica, 8*l.* 2*s.* 6*d.* to 8*l.* 5*s.*; and Gambia, 8*l.* per cwt.

Heavy Chemicals.

There has been a better inquiry in heavy chemicals in this centre during the past week. Manufacturers are well supplied with orders both on home and export account, though there is in some cases a difficulty in filling orders. Bleaching-powder in short supply, and the production under requirements. Caustic soda is scarce and nominal. There is a strong demand for vitriol and nitric acids, and recent higher prices are well maintained. Bleaching-powder is 8*l.* to 10*l.*, according to delivery; caustic soda, 70 to 72 per cent., 14*l.* 5*s.* to 14*l.* 10*s.*: 60 to 62 per cent., 13*l.* 10*s.* to 13*l.* 15*s.* Soda-crystals, 45*s.* per ton on rails, in bags. Bicarbonate of soda is 5*l.* per ton on rails. Acetate of lime very scarce, and quotations not available. Alum and sulphate of alumina have an upward tendency. Chlorate of potash is quoted 1*s.* 3*d.* to 1*s.* 6*d.*; yellow prussiate is 2*s.* 2*d.* to 2*s.* 3*d.* per lb. Sal-ammoniac shows no change. Cream of tartar and acids are scarce and to a great extent nominal. White acetate of lead is about 25*l.* White powdered arsenic is higher at 17*l.* 10*s.* to 18*s.* per ton delivered Manchester. Sulphate of copper is quiet at 26*l.* 12*s.* 6*d.* to 26*l.* 17*s.* 6*d.* per ton here. Sulphate of ammonia is also quiet at 14*l.* 7*s.* 6*d.* per ton on rails, Manchester. Benzols and carbolic acid are still nominal.

Continental Drug and Chemical Markets.

The following notes chiefly refer to the Hamburg and Berlin markets under date of July 31 and August 1:

Agar-agar is firm. First strip is only obtainable at m.9.70 per kilo.

Balsams.—*Copaiba* was a little more in demand for the better qualities, which are quoted at m.4 and upwards, according to quality. *Tolu* firm but slow.

Borax and Boric Acid are again higher. The makers ask from m.125 to m.140 for borax and from m.190 to m.200 per 100 kilos. for boric acid. Only small quantities are sold by the makers, so that large quantities must be purchased from second-hands, who ask m.120 for borax crystals and powder, and also dispose of large quantities of boric acid at from m.140 to m.145 per 100 kilos.

Bromine.—At a general meeting on June 20 the immediate liquidation of the German Bromine Convention, Ltd., in Leopoldshall-Stassfurt, was decided on. Originally the date of liquidation was fixed for December 31, 1915.

Cevadilla-seed is firm, and is still obtainable at m.175 per 100 kilos

Cinchona.—Since the outbreak of war cinchona has been very dull and prices have undergone little change. At present the prices are: Cartagena, m.140; Puerto-Cabello, from m.175 to m.180; fair monopoly bark, m.415; Cochabamba, from m.290 to m.300; Calisaya, cultivated, quill, from m.120 to m.125.

Citric Acid is offered at m.13.25 per kilo. for prompt and m.13 for delivery within a few weeks. Large quantities are offered by way of neutral countries. Buyers do not purchase more than is strictly necessary.

Ergot.—Large quantities have been sold, including Russian and Spanish, at m.5.50 per kilo. At present considerable quantities are still obtainable at m.6 per kilo., but the principal owners ask m.7.50 and more.

Gum Acacia is again in active demand, and large quantities have been sold at from m.137.50 to m.140 per 100 kilos.

Hydroquinone has again been advanced on account of the high prices of the raw material. For large quantities m.8 per kilo. is asked, and for small quantities the prices are higher.

Lactic Acid is in active demand as a substitute for citric and tartaric acids. Pure is quoted at m.550 and 50-per-cent. at m.350 per 100 kilos.

Lead Peeps.—The Convention has fixed the price of red lead at m.77 per 100 kilos., on account of the high prices of the raw material.

Mastich has again been asked for in considerable quantities, so that m.8 per kilo. had to be paid.

Oils (Essential).—*Star Anise* is still obtainable in sufficiently large quantities at m.14.50. *Cassia* is a trifle firmer at from m.9 to m.9.75 per kilo., according to c.a. content. *Clove* is to be had at m.20 per kilo. *Eucalyptus* is quoted at m.5 per kilo. The demand for *Lime* increases; it is offered at m.25. *Menthol* is quiet, and is offered in vain at m.32 per kilo. *Japanese Mint Oil* is unchanged at m.13.50 per kilo. *Siberian Pine-needle* is to be had at m.4. *Thymol* has again advanced, to m.65 per kilo.

Opium.—The new Turkish crop appears to be unsatisfactory. Reports from Constantinople state that the total crop amounts to about 7,000 cases, whilst large quantities of the 1914 crop are still on hand. As England, France, and America are cut off from the supply of Turkish opium, prices are expected to remain the same. The spot value is m.35 per kilo. for 10-per-cent. opium.

Shellac is still in active demand. Large quantities have not yet been sold, however, as buyers' ideas of value are too low. The prices that are asked are at present from m.235 to m.240 for TN shellac, from m.245 to m.250 for AC Garnet, from m.270 to m.290 for better sorts, according to quality. Stick lac is offered in large quantities still. Tonkin stick lac is offered at m.165 and Siam at m.180 per 100 kilos.

Tartaric Acid is quiet and only small quantities have been sold. Lead-free crystals are offered at m.9 per kilo. and powdered at m.9.75.

Waxes.—Bees' is firm, and good bleached sorts are in active demand. *Carnauba* is firm and unchanged; only small quantities of fatty grey have been sold. Yellow is quoted at from m.590 to m.600 per 100 kilos. The demand for *Japanese* has increased for prompt delivery and consequently the prices have advanced to from m.240 to m.245 per 100 kilos.

Wormseed meets with a slow sale owing to the high prices —viz., m.5 per kilo. Buyers only purchase what is required for immediate use.

Malayan Citronella Oil.

A Chinese company in Singapore has planted up about 200 acres with citronella grass and is obtaining a monthly yield of about 1,000 lb. of citronella oil. The oil has been favourably reported upon, and it is understood that a large firm of soapmakers in London has arranged to take the entire output. This is an industry which was entirely given up during the rubber boom years, as every estate went in for rubber growing to the total exclusion of all other interests. The Chinese, particularly, are now turning their attention to other possibilities, and at the present price of patchouli oil it would appear to offer good prospects.

American Peppermint Oil.

Mr. F. M. Rudd, Bronson, Mich., has sent the following report to his London agents, R. W. Greeff & Co.: "The peppermint season so far is turning out very bad for saving the crop of oil. We have had excessive and almost continuous rain for the last ten days, which has damaged the mint, and a certain proportion has fallen on the ground, where it rots, and also prevents the plant from 'oiling' as well as it would with hot, sunshiny weather. The yield per acre from the mint already distilled to date does not exceed half as much as that of a year ago, and if this cold and wet weather continues a few days longer it will cause an immense shortage in this year's production. We estimate the crop has been damaged 20 to 25 per cent. already. We are not interested in selling oil at the present time, and cannot leave cable offers open except subject to confirmation by wire until more settled weather conditions prevail."

Hawaiian Papain.

Some interesting facts connected with the papaw-tree (*Carica Papaya*) and its fruits as cultivated in Hawaii have recently been given in reports of the Agricultural and Experiment Station of that island. With regard to the production of papain, it has been found that the dried juice can be produced at a profit for $2.50 per lb. Experiments have shown that if, in the early morning, a dozen shallow lengthwise excisions, ½ in. to ¾ in. apart, are made in a papaw-tree of good size, enough juice will be obtained to make ½ oz. of dried papain. Fruits may be tapped on alternate days five to seven times in all. As soon as the fruit begins to turn yellow the milky juice flows less freely. The tapping-wounds heal quickly, and the fruit is not injured by tapping; in fact, the flavour appears to be somewhat improved, since a slight bitterness which characterises the juice is thereby removed. A curious fact is recorded as to the change of sex in some trees. Two male trees, it is said, were cut off 3 ft. from the ground, and when the new branches appeared it was found that the sex had changed, and that regular, perfect flowers, each bearing fruit, were developed.

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Arrivals of Chemicals, Drugs, etc.

During the period August 4 to 16 inclusive the following produce from the places mentioned in parentheses has arrived at the English ports stated. Goods in transit are not included. The figures denote packages where not specifically described:

To London.

Acetanilide (N. York) brls. 22, (Rotterdam) cks. 5
Acetic acid (N. York) brls. 137, (Gothenburg) dms. 25, (Rotterdam) 400, (Philadelphia) brls. 142
Acetone (N. York) dms. 286
Agar-agar (Kobe) 10
Albumen (Shanghai) cs. 612, pkgs. 28
Alcohol, wood (N. York) dms. 40
Aloes (Mossel Bay) 15
Ammon. nit. (Skien) cks. 1,550
Ammoniacum (Bombay) cs. 17
Anise oil, star (H.-Kong), 20
Annatto-seed (Java) 302
Antimony ore (Sydney) 1,022, (Rangoon) 215
Antimony reg. (China) 300
Arachis oil (Rotterdam) brls. 1,000, (Japan) cs. 500
Argol (C. Town) 132, (Barcelona) 147, (Oporto) 328, (Sicily) 670
Arrowroot (Trinidad) 43
Balsams (Colon) cs. 15
Barytes (Genoa) 1,025
Benzoin (Singapore) cs. 79, (Penang) 95
Bleaching-powder (N. York) dms. 750
Boric acid (Leghorn) 162
Buchu (C. Town) 4
Calamine (Carloforte) tons 90
Calcium carbide (Skien) dms. 620
Calcium citrate (Sicily) 154, (Trinidad) cks. 52
Calumba (Bombay) 188
Camphor (Suez) cs. 950, (Kobe) 50
Canary-seed (R. Plate) 4,503, (Morocco) 4,193
Caraway oil (Holland) cs. 6
Caraway-seed (Holland) 245
Carbon tetrachlor. (N. York) dms. 9
Carbonic acid (Rotterdam) tubes 30
Cardamoms (Bombay) 26, (Colombo) 10
Casein (Bordeaux) 125
Cassia-bark (Kobe) 140, (H.-Kong) 1,250, (Bombay) 133
Cassia oil (H.-Kong) cs. 25
Castor oil (Japan) cs. 200
Castor-seed (Karachi) 239
Chemical-products, medicines, etc. (N. York) pkgs. 1,095, (Paris) pkgs. 99, (Piræus) brls. 48, (Boulogne) cs. 78
Chillies (Osaka) 26, (Bombay, etc.) bdls. 459
Cinchona (Amsterdam) bls. 40
Cinnamon (Colombo) 130
Citric acid (N. York) 20, (Palermo) 12
Cloves (Zanzibar) bls. 2,458
Cochineal (L. Palmas) 37
Coconut oil (Singapore) cs. 3,968, (Colombo) pps. 145, pns. 85, hds. 17
Cod oil (Kobe) cs. 6,000
Coriander-seed (Casablanca) 539
Cream of tartar (Marseilles) cks. 156, (N. York) 51
Cumin-seed (Morocco) 467
Dextrin (Amsterdam) 370
Dragon's-blood (Penang) cs. 17, (Singapore) 19
Drugs, etc. (N. York) cs. 9, (Boulogne) cs. 54
Epsom salt (N. York) bgs. 265, brls. 319
Essential oils (Amsterdam) cs. 17, (U.S.A.) cs. 10, (Sicily) pkgs. 326, (H.-Kong) cs. 26
Farina (Holland) 100
Fenugreek-seed (Morocco) 780
Formaldehyde (N. York) pkgs. 92
Gamboge (Singapore) 10
Gelatin (France) bls. 166, cs. 21
Gentian (Bordeaux) 16
Geranium oil (Marseilles) pkgs. 13
Ginger (H.-Kong) cks. 300, (Bombay, etc.) cs. 40, bgs. 251
Glycerin (Holland) dms. 34, cs. 10, (Natal) dms. 31
Gum acacia (Bombay, etc.) bgs. 665, (Colombo) 64, (Sudan) bgs. 1,211
Gum copal (Delagoa B.) 42, (H.-Kong) 108, (Singapore) 195, (Amsterdam) 391, (Suez) 69, (Macassar) bgs. 368, bkts. 399
Gum damar (Singapore) 423, (Macassar) 897, (Padang) cs. 100, bgs. 678
Gums, undescribed (Bordeaux) sks. 107, (Adelaide) bgs. 3,273, (Bombay) pkgs. 235, cs. 91, bgs. 27
Herbs (Japan) bls. 50
Honey (France) cks. 69, (N. York) 64
Indigo (Java) cs. 17
Ipecacuanha (Port Swettenham) pkgs. 40, (P. Colombia) 6, (Colon) 8
Jalap (N. York) bls. 5
Kieselguhr (Rouen) 207
Kola (Grenada) 4
Lactic acid (N. York) cks. 66
Lemon oil (Sicily) pkgs. 217, (*see also* Ess. oils)
Lime-juice (Trinidad) pns. 6, pps. 8, hhds. 81, cks. 54, dms. 20
Lime oil (Trinidad) dms. 10, cs. 6, (St. Lucia) cs. 26
Linseed (Kobe) bgs. 770, (R. Plate) 8,058, (India) 41,214, (China) 936, (Morocco) 458
Liquorice-juice (Naples) 30
Liquorice-root (Sicily) 19
Lithopone (Rotterdam) 305
Mace (Grenada) 303
Magnes. carb. (Amsterdam) cks. 60
Magnesite (Amsterdam) 40
Manna (Palermo) 3
Mercurial salts (Genoa) cs. 43
Mercury (Leghorn) bott. 1,500
Milk-sugar (N. York) cs. 100, (Holland) 150
Mineral waters (France) cs. 550, crts. 700
Naphthaline (Rotterdam) 8
Nutmegs (Singapore) 250, (Penang) 23, (Bombay) 16
Nux vomica (Bombay) bgs. 658
Olibanum (Bombay) cs. 552
Olive oil (Tarragona) brls. 54, (Marseilles) cs. 9, (Malaga) 22, (Leghorn) pkgs. 159
Opium (Bombay) cs. 459, (Genoa) 9, (Piræus) 5
Orris (Leghorn) 30
Oxalic acid (Fredrikstad) cks. 40
Palm-kernels (Burutu) tons 1,830
Pepper, w. (Penang) 344
Peppermint oil (U.S.A.) 25
Perfumery (France) cs. 64
Petroleum-jelly (U.S.A.) 726
Potash oxalate, neutral (Fredrikstad) kgs. 40
Potash pruss. (Paris) 4
Potash, undescribed (N. York) cks. 15
Quince-seed (C. Town) 11
Quinine (Amsterdam) cs. 98
Rape-seed (India) 6,139, (Shanghai) 545, (Tunis) 957
Rape-seed oil (Kobe) cs. 18,008, (China) dms. 92
Rhubarb (Marseilles) cs. 350, (Shanghai) cs. 106
Roots, barks, herbs, etc. (N. York) bls. 48, (Marseilles) bls. 247
Rosin (France) 1,063, (U.S.A.) 3,650
Saccharin (Dieppe) cs. 25, (Rotterdam) 2, (Treport) 12
Salacetos (Fredrikstad) kgs. 40
Salicylic acid (Natal) kgs. 19
Saltpetre (India) pkgs. 4,705
Sandalwood chips (Bombay) 175
Sandarac (Morocco) 96
Sarsaparilla (N. York) 52, (Colon) 4
Seedlac (Calcutta) 100
Senna (Bombay) bls. 168, (Suez) 26
Shellac (Calcutta) pkgs. 1,610; *button* 180; *garnet* 100
Soda caustic (U.S.A.) dms. 100
Soda hypo. (N. York) kgs. 2,473, brls. 404
Soda nitrate (Skien) 4,590
Soda peroxide (Christiania) cs. 14, (Havre) 5
Soda prussiate (Rouen) 16
Soda, undescribed (Gothenburg) kgs. 60
Soy (Kobe) 350, (H.-Kong) 300
Soya-bean oil (Japan) cs. 39,827, (Shanghai) pkgs. 2,156, (Dairen) cs. 44,000, dms. 4,054, brls. 1,199
Spermaceti (Kobe) cs. 800
Strontium nit. (U.S.A.) brls. 28
Sulphur (Sicily) pkgs. 2,691, tons 900
Sunflower-seed (Kobe) 1,400, (Beira) 216, (N. York) 110
Tamarinds (Antigua) 544, (Trinidad) 33, (Barbados) 25
Tartar (Barcelona) 144, (France) 47
Tartaric acid (Marseilles) cs. 20, (Genoa) cs. 44, (Leghorn) cks. 120
Tragacanth (Bombay) cs. 319, bgs. 122
Turmeric (Bombay) 144
Turmeric bulbs (Bombay, etc.) 728
Turpentine (U.S.A.) brls. 10,850
Urea (Gothenburg) cs. 60
Vetivert oil (France) cs. 4
Wax, bees' (Beira) 227, (Delagoa B.) 250, (Bombay) 8, (Shanghai) cs. 38, (Lisbon) 21, (Morocco) 340
Wax berry (C. Town) cs. 7
Wax, veg. (Kobe) 255
Wine-lees (Sicily) 363, (Piræus) 300
Witch hazel ext. (N. York) brls. 40
Wood oil (China) pkgs. 3,707, dms. 49
Zinc oxide (N. York) brls. 1,400, (Rotterdam) 300

To Liverpool.

Acetate of lime (N. York) 301
Acetic acid (N. York) brls. 140
Albumen (China) 220
Ammon. anhyd. (Baltimore) cyl. 350
Aniline colours (Bordeaux) cks. 108
Argol (Oporto) cks. 507
Balsams (South Amer.) cs. 10
Calcium acetate (Boston) 5,209
Carbon black (U.S.A.) 100
Cloves (Zanzibar) 98
Cochineal (L. Palmas) 11
Coconut oil (Singapore) cs. 1,500, (Ceylon) 197
Cream of tartar (Bordeaux) cks. 80, (Spain) 40, (Marseilles) kgs. 118
Drugs, etc. (N. York) cs. 79, (Havre) pkgs. 187; *medicines* (Havre) cs. 18, (N. York) cs. 302; *chemicals* cs. 11
Epsom salt (N. York) bgs. 320
Formaldehyde (N. York) brls. 123
Glycerin (Havre) cks. 20, (Bordeaux) cks. 50, (Nantes) cks. 170, (M. Video) 6, (Bilbao) 10, (Marseilles) dms. 40
Gum acacia (P. Said) 1,627, (Alexandria) bgs. 114
Gum copal (Lisbon) 53, (W.C. Africa) 23
Gum damar (Batavia) 150
Honey ('Frisco) cs. 1,318, (Curacao) 37, (Jamaica) 44
Indigo (Samarang) cs. 38
Lime-juice (Jamaica) pkgs. 7
Lithopone (N. York) 168, (Holland) 40
Magnes. chlor. (N. York) dms. 75
Magnesite (Piræus) tons 2,200, (Limni) bgs. 20,033
Manna (Palermo) cs. 20
Mineral white (Bordeaux) bgs. 3,362
Olive oil (Seville) brls. 280, (Marseilles) cs. 44
Oxalic acid (Fredrikstad) 40
Palm-kernels (W.C. Africa) bgs. 35,486, tons 832
Palm oil (W.C. Africa) cks. 2,673
Pepper (Singapore) 390
Peptone (N. York) pkgs. 10
Perfumery (Havre) cs. 108, (Boston) cs. 90
Petrolatum (N. York) 20
Quebracho ext. (B. Ayres) bgs. 35,440
Roots, barks, herbs, etc. (N. York) kgs. 31
Rosin (Bordeaux) 482, (Spain) 650
Soda carb. (N. York) brls. 120
Tartaric acid (Rotterdam) 10
Wax, bees' (W.C. Africa) 12
Wax, carnauba (Bahia) 225, (Pernambuco) 516
Wine-lees (Bordeaux) 40
Zinc oxide (N. York) 670, (Holland) 25

To Manchester.

Acetate of lime (N. York) bgs. 663, (Gothenburg) 140
Acetic acid (U.S.A.) brls. 184
Calcium carbide (Montreal) dms. 5,000
Casein (N. York) 28
Citric acid (Marseilles) cks. 11
Coconut oil (Marseilles) brls. 904
Cream of tartar (Marseilles) cks. 28
Dextrin (Rotterdam) 682, (U.S.A.) 2,722
Farina (Rotterdam) 180
Formaldehyde (U.S.A.) brls. 87
Gentian (Marseilles) bls. 3
Glucose (U.S.A.) brls. 608,
Gums, undescribed (Bordeaux) bgs. 258
Magnes. carb. (Rotterdam) 20
Olive oil (Marseilles) pkgs. 61
Oxalic acid (Sweden) cks. 40
Phosphorus (Montreal) cs. 250
Potash chlor. (Montreal) kgs. 20
Soda acetate (N. York) brls. 14
Soda ash (Boston) 200
Soda chlorate (U.S.A.) kgs. 700
Tannic acid (Montreal) kgs. 40, (N. York) brls. 20
Tartaric acid (Marseilles) cks. 14

To Bristol.—Calcium carbide (Civita Vecchia) tons 261; groundnuts (Rufisque) tons 910; phosphate rock (Sfax) tons 2,909; zinc oxide (N. York) 300. *To Dover.*—Soda nitrate (Mollendo) bgs. 4,991. *To Folkestone.*—Drugs (France) pkgs. 53; essential oils (France) pkgs. 82; perfumery (Boulogne) pkgs. 212. *To Goole.*—Perfumed spirits (Boulogne) cs. 14. *To Grimsby.*—Chem. prod. (Dieppe) cs. 10; tannic acid (Dieppe) cks. 36. *To Harwich.*—Perfumed spirits (Rotterdam) cs. 18. *To Hull.*—Ammonia (Drontheim) 60; castor-seed (Bombay) 7,000; chemical. prod. (N. York) brls. 55; cod oil (Christiania) 30; formic acid (Rotterdam) cbys. 60; glycerin (Holland) dms. 320; linseed (R. Plate) bgs. 102,583, (Calcutta) 77,427; lithopone (Amsterdam) 50; zinc oxide (Rotterdam) 10; soda prussiate (Gothenburg) brls. 17, (Holland) 4; sulphuric acid (Holland) dms. 50.

Positions for Chemists' Business.—It may be regarded as an index of the scarcity of chemists that we have recently received two letters from members of the public giving information as to "splendid openings for chemists."

C

Correspondence

Memoranda for Correspondents.

Communications should be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with.

Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed, even when the writers use a "nom de plume."

Complete and systematic indexes of the "C. & D." are presented with the last issues in June and December each year. Every subject dealt with week by week is included, and correspondents are advised to refer to these and the "C. & D. Diary" before asking the Editor for information, so as to save time.

The Manufacture of Thymol.

Sir,—With reference to the letter from Smith, Stanistreet & Co. in The Chemist and Druggist of June 26, to hand by this mail, I should like to point out that the statement which appeared in The Chemist and Druggist related to the manufacture of thymol on an industrial scale and on an economic basis. It has not been claimed for me that thymol as a chemical substance has been first made now in India. Your correspondents may have made it twenty years ago, and there may be many people who may have worked on it, but so far as I know no one has made thymol here industrially. In 1903 Bombay exported 8,641 cwt of ajowan-seed (the raw material for thymol manufacture), of which 8,443 cwt. was shipped to Germany, the rest going to Egypt and America. This shows that the thymol industry has for long been almost exclusively confined to Germany. The ruling market price for German thymol was 6*s*., but on the outbreak of war the price rose to 28*s*. in England, where any quantity of ajowan-seed could have been made into thymol if the process were known. This also shows that, despite all knowledge on the subject, very few could successfully make pure thymol for the trade. It is one thing to analyse and synthesise a few grams in the laboratory and another thing to manufacture on an industrial scale. I do not see what gain is obtained by minimising the importance of an industrial problem fraught with immense possibilities. I also do not understand what the exporting of tons of ajowan-seed (not thymol, but the raw material only) by this firm has to do with the present question. . . . The Bengal Chemical and Pharmaceutical Works, Ltd., have during the last three years manufactured hundreds of pounds of crude thymol for their proprietary preparations.

Yours faithfully,

Probodha C. Chattopadhyay, M.A., F.C.S., etc.

Anti-typhoid Tablets.

Sir,—In an interesting paper by Mr. J. Stanley White on the sterilisation of water by sodium bisulphate, it is remarked that "there appear to be few available data regarding the value of sodium bisulphate as a water-sterilising agent. The War Office . . . apparently have satisfied themselves that sodium bisulphate will actually do the work required of it." This would seem to show that Mr. White is not acquainted with the origin of the use of sodium bisulphate as a water-steriliser. The inventor was Dr. Samuel Rideal, who was led to investigate the action of acids as sterilisers from the fact that when salad ingredients are washed with vinegar, as is the practice in some countries, the risks of typhoid dissemination are much less. I believe that Dr. Rideal read a paper on the subject at the meeting of the British Association in 1901, but in 1902 he gave a series of lectures before the Royal Society of Arts on water-purification, that delivered on February 3 being a *résumé* of experiments made, in conjunction with Dr. Parkes, in 1900, to prove the trustworthiness of sodium bisulphate as a sterilising-agent for drinking-water. These tests were made upon *B. typhosus*, using various amounts of sodium bisulphate, and allowing the action to take place for different periods of time. The results confirm—shall I say?—Mr. White's work fifteen years afterwards. The "patented" anti-typhoid tablets to which Mr. White refers are not known to the writer, but if there was any patent covering the manufacture, it must have expired by effluxion of time. It was the terrible mortality from typhoid fever among the British troops in the South African War that caused Dr. Rideal to set to work to find a ready means of sterilising water.

Faithfully yours,

Historicus. (191/91.)

Dispensing for Dependants.

Sir,—It was difficult to believe that our old and admired friend "Xrayser II." could pen the remarks in opposition to the above scheme. I am sorry, too, to find that Mr. Fairweather agrees with him. . . . In carrying out the scheme we are, says "Xrayser II.," "paying six times over." Supposing we are (which is doubtful), what other circumstance could so well redound to the honour of pharmacists—apart from our doing it uncomplainingly? Surely it has occurred to "Xrayser II." that in thus bracketing us with doctors (and with all the other professions to a greater or less extent), and in segregating us from the grocer and baker and butcher, a tremendous compliment is being paid to our status which cannot fail to react to our benefit in the future? Even so, we are still doing less than the doctors, for in receiving the cost price of the drugs we are being paid a large portion of our working-expenses, whereas medical men do the work quite gratuitously and receive no contribution to working-expenses. Will "Xrayser II." forgive me if I say that I feel certain he has led us wrongly in this particular? I would add that any revision of the scheme must come jointly from representative committees of doctors and pharmacists. A voluntary cutting of ourselves adrift from the professions in this matter would be but to hammer another nail into the coffin of our status and to fling us back to the position of small shopkeepers—a position from which we are slowly but surely emerging.

Yours faithfully,

Chester. R. Cecil Owen.

The Price of Aspirin-tablets.

Sir,—In connection with the discussion on the price of aspirin-tablets, pharmacists should be warned to insist upon getting acetyl-salicylic acid, B.P. We have had many offers of a cheaper product, which does not answer the British Pharmacopœia tests. The prices given in your market reports are very fair, and in the quotation in the *C. & D.*, August 7, we notice that the prices given are 32*s*. to 35*s*. per lb.—figures we are being asked daily for the B.P. article.

Yours faithfully,

Arthur H. Cox & Co., Ltd.

Cattle-poison.

Sir,—A few years ago I was called to inspect a field of seeds on which lambs had been fed, after which many of them died, with symptoms of irritant poisoning. A careful examination revealed the presence of an umbelliferous plant of local and sporadic habit, and to this I attributed the trouble. The plant is glabrous, bright green, and somewhat fleshy when young. The umbels are small, irregular, and the rays very unequal. I advised the farmer to move the lambs and plough up the field, and since then there has been no further trouble. If your correspondent can find this umbellifer on the suspected land, I shall be much obliged if he will send me specimens for confirmation. The plant I refer to is described in Hooker's "Students' Flora" and in Bentham under the name of *Petroselinum segetum*.

Yours faithfully,

134 Market Place, Cirencester. W. Griffiths.

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

The Summer Number.

"I congratulate you on the splendid reproductions in the Summer Number; indeed, the whole publication reflects the greatest credit on your splendid enterprise."—*J. C.* (12/8).

Sticking Labels on Tin.

Referring to a reply in the *C. & D.*, August 7, p. 62, *A. W.* (195/74) writes: "I used to have trouble in sticking gummed-paper labels on tin boxes. After trying all sorts of plans, none of them satisfactory, I tried smearing a little cabinet-varnish over the tin box-lids, afterwards wetting the gummed-paper labels and placing them on the box-lids. This method seems to answer the best of any I have tried."

Closing Hours.

Mr. K. J. Matterson, Bournemouth, sends us two window-cards which he is now using for announcing altered times of closing. The cards are $6\frac{1}{4}$ by $9\frac{3}{4}$, and are worded as follows:

Closed during Luncheon Hour, 1.15 to 2.15.	Hours of Business During the War.
	8.30 A.M. to 1.15 P.M.
	2.15 P.M. to 8.0 P.M.
	Sundays, 6.30 P.M. to 8.30 P.M.

Legal Queries.

The majority of difficulties in regard to trade law are explained in the legal section of "The Chemist and Druggist Diary," 1915, beginning on page 405.

Tatza (198/12).—Your name is on the Register of Chemists and Druggists, but the address there given is not that from which you write. There is no fee payable on notifying changes of address.

Waltonian (198/47).—Poison Schedule.—Neither salicylic acid nor extract of cannabis indica is a scheduled poison, and therefore corn-plasters containing these ingredients can be sold by persons who are not registered chemists.

A. B. C. (186/34).—(1) Sale of Poison in Prescriptions.—An unqualified person who sells a medicine dispensed from a prescription in the absence of his qualified principal is infringing the Pharmacy Acts. (2) Personal Supervision of the sale of poison is interpreted in a reasonable manner, but obviously there can be no supervision if the registered chemist is not on the premises. (3) Sale of Homœopathic Medicines.—See *C. & D. Diary*, p. 411.

Field (199/29).—(1) Branch Shop.—According to the strict reading of the Poisons and Pharmacy Act, 1908, a registered chemist cannot carry on a branch shop in his own name without a qualified manager in charge, even though poisons are not sold. The point has not, however, been definitely decided by the Courts. (2) Scheduled Poisons.—Blue ointment, grey powder, and calomel are not scheduled poisons. Salts of lemon as a soluble oxalate requires to be labelled with the name and address of the seller and to be labelled "Poisonous."

Jack (198/8).—(1) "Name and Address of Seller."—It has not been decided definitely whether such a title as "The London Patent Medicine and Drug Stores," with address, on the label of a poisonous substance satisfies the requirement of the Poisons and Pharmacy Act. As the name under which you carry on business it presumably satisfies the object of the Act, which is to be able to trace readily the seller of a poison. (2) Salts of Lemon, being a soluble oxalate, is included in Section 5 of the Poisons and Pharmacy Act.

H. K. W. (194/81) holds his premises under a six-months' tenancy agreement, one clause in which is to the effect that he must keep the inside of the premises in repair and the landlord the outside. Would "H. K. W." be under any liability in the event of the premises being damaged or destroyed by aircraft? [Although we do not think that "H. K. W." could be compelled to rebuild the premises, we consider that he would be liable to execute repairs in the event of the interior of the premises being damaged as the result of an air-raid. Undoubtedly the landlord, if anybody, is the proper person to insure the premises in a case such as the present; but if he declines to do so, "H. K. W." should consider the advisability of protecting himself by insurance.]

B. R. M. (193/9).—(1) Recommending a Chemist.—There is nothing illegal in the practice you refer to of a doctor recommending a patient to go to a particular chemist to have prescriptions dispensed. The doctor would no doubt be prepared to argue that his recommendation was in the best interests of the patient. At the same time the doctor is not entitled to make disparaging remarks about other chemists, but the statement that a particular chemist "probably has not the ingredients of the prescription" can scarcely be construed into a slander. (2) There is no rule in regard to doctors employing the services of examined opticians, although most oculists recognise the advantage of employing a man whose abilities are vouched for by an examining body. You should try and get in touch with the medical man to whom you refer and convince him of your knowledge of oculists' prescriptions for medicaments and spectacles.

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas of them. When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, but give the reference to the issues in which the information may be found. If querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

G. R. E. (189/1).—Dispensers as such are not enlisted in the Army at the present time. At the outbreak of war a few were engaged, but the number required was soon completed. A large number of qualified chemists have enlisted in the Royal Army Medical Corps on the chance that their services as compounders may be utilised, but the opportunities of their expert knowledge of dispensing being applied in the Army are very few. As an apothecary's assistant you stand no better chance than a qualified chemist.

H. S. (186/12).—Schlippe's Salt is sodium sulphantimonate. It is used in photography in the Carey Lea process of intensification. The salt is made as follows:

A mixture of 11 parts of finely powdered antimony trisulphide, 13 parts of crystallised sodium carbonate, 1 part of flowers of sulphur, 5 parts of recently slaked lime, and 20 parts of water is digested at the ordinary temperature for twenty-four hours, with frequent stirring, in a vessel which can be closed. The mass is then strained and washed several times with water; the solution and washings are evaporated in a porcelain or clean iron dish until a sample yields crystals on cooling; the solution is then cooled, and the resultant crystals washed with cold water and dried in the open air or in a desiccator at the ordinary temperature.

F. R. (187/31).—Anusol Suppositories.—This German proprietary is understood to owe its medicinal properties to bismuth oxyiodogallate (airol). The following is a formula for pile-suppositories, devised by the Dutch Specialities Committee as a substitute for anusol suppositories:

Bismuth oxyiodogallate	6 grams
Resorcinol	1.5 gram
Zinc oxide	6 grams
Peru balsam	1.5 gram
Theobroma oil	19 grams
Yellow beeswax	0.0075 gram
Sesame oil	1.5 gram

Divide into twelve suppositories.

W. S. T. (185/23).—Braxy in Sheep.—This appears to be the disease your customer describes. Braxy is in some seasons very rife among sheep when first folded on turnips. When first put on roots sheep should have a small quantity of hay, well watered with salt and water, or a little salt given daily with some crushed oats or maize and bran. A lump of rock salt is frequently placed in the pastures for the sheep to lick as a preventive of braxy. Treatment is often impracticable, owing to the rapid course of the disease, but if a case is noted early the following drench should be administered every four hours:

Sodium hyposulphite	ʒiij.-ʒv.
Carbolic acid	♏v.-xv.
Essence of ginger	ʒj.-ʒij.
Warm water	℥x.

The cause of the disease, like that of a kindred disease of sheep, louping-ill, is obscure, but it seems from recent research to be due to the combined effect of bacteria and eating frosted food.

Mere Youth (192/50).—The action of a brother chemist in endeavouring to secure for himself the services of the manager of your branch-shop is not neighbourly, to say the least. Why not raise the question at a meeting of the local Association?

C. H. P. (193/1).—Nominations for Pharmaceutical Committees.—We published the regulations regarding the method of electing members of the Pharmaceutical Committees in the *C. & D.*, November 8, 1913, p. 48. Nominations require to be made on nomination-papers obtained from the Returning Officer, 29 Queen Anne's Gate, London, S.W., but voting-papers are only sent out to chemists on the panel in those cases where the number of persons nominated is greater than the vacancies. It is quite easy to stop any "hole-and-corner" tactics by making nominations, but if this has not been done there is no redress for at least one year.

W. B. R. (192/4).—(1) Barium Tannate is insoluble in water. It is prepared by adding barium chloride to an aqueous solution of potassium tannate, the barium tannate, $(BaC_{13}H_9O_7,CO_2)_2$, being precipitated. Potassium tannate is prepared by mixing alcoholic solutions of potash and tannic acid. In regard to the preparation of barium tannate from barium carbonate and cutch, there does not appear to be any more direct way than the one given above. (2) If you will send a sample of the ointment to which you refer, with particulars as to its use, etc., we will examine it.

J. W. W. (196/2).—Liquid Polish for Floors.—The following are recipes for liquid polishes applied by means of a mop:

I.		II.	
Rosin	1¼ lb.	Terebene, crude	20 parts
Palm oil ...	12 oz.	Camphor oil ...	5 parts
Nitrobenzene ...	2 oz.	Linseed oil ...	70 parts
Vanillin ...	½ dr.	Paraffin oil ..	5 parts
Benzene ...	10 pints or a sufficiency		

In the second recipe part of the terebene may be replaced by turpentine, and, if a colouring-matter is needed, use palm oil or aniline orange.

E. C. (197/61).—Bordeaux Mixture.—The following is one of the formulæ recommended by the Board of Agriculture:

Copper sulphate	12 lb.
Quicklime (freshly burnt) ...	8 lb.
Water	75 to 100 gals.

Run into a cask about 30 gals. of water. Crush 12 lb. of copper sulphate, tie up in a piece of sacking, and suspend just below the surface of the water; or, if preferred, dissolve the bluestone in boiling water and pour into the cask. Next moisten and slake 8 lb. of lime. The lime must be allowed to swell and crumble slowly. When it has been well slaked work it down first into a thick cream and gradually dilute to 4 or 5 gals. The milk of lime must next be strained through a fine sieve or piece of sacking to remove grit: it should then be further diluted with water to about 10 gals. and poured into the cask containing the solution of copper sulphate. As the two fluids mix they must be thoroughly stirred.

Many more formulæ for this preparation will be found in the *C. & D. Diary*, 1910, p. 220.

Mumpara (187/26).—Value of a Business.—There is no definite rule by which the value of a business can be estimated from a knowledge of the stock and fixtures and net profit. A good deal depends upon the nature of the business. For a modern business with a big trade in a good position and with books in perfect order, drugs, patents, sundries, and own packed goods may be valued at net cost, photographic goods at from 10 to 25 per cent. off, and fittings at valuation. For such a business the goodwill is worth two or three years' net profits. On the other hand, with a business that is overstocked, run down, and on the verge of bankruptcy a much more drastic valuation would have to be made, a nominal sum offered for the fittings, and nothing for goodwill

C. (191/96).—Sodium-salicylate Solution.—A correspondent points out that the formula given in the *C. & D.*, August 14, p. 72, differs from that printed in the *C. & D.*, April 10. We find that the quantity of salicylic acid in the formula in our last issue should be 414 grains. The calculation is as follows:

$$\underbrace{C_6H_4(OH)COOH}_{138} + \underbrace{NaHCO_3}_{84} = \underbrace{C_6H_4(OH)COONa}_{160} + H_2O + \nearrow CO_2$$

If 10 grains in ʒj.

$$480 \text{ ,, makes } \frac{480 \times 1}{10} = 48 \text{ drs.} = 6 \text{ fl. oz.}$$

$$160 \times 3 = 480 \quad \therefore$$

Salicylic acid $= 138 \times 3 = 414$ grains

Sodii bicarb. $= 84 \times 3 = 252$,,

But sodii bicarb. is only 98.5 % pure:

$$\therefore \frac{100 + 252}{98.5} = 256 \text{ grains}$$

W. H. S. (200/26).—Cocoa-flavouring.—Vanilla, cinnamon, and cassia are ingredients used in flavouring cocoa, but cocoa-bean has an aroma and a flavour of its own, which are developed by fermentation and roasting. The darker colour of Dutch cocoa is due to the use of alkali, such as ammonia, in its manufacture, for the purpose of increasing the solubility of the product. Solubility in the case of cocoa refers to diffusibility in liquid, and not to what chemists understand by solubility.

P. I. (Brazil) (191/17).—(1) Crystal Brilliantine:

Natural palmitin	500 grams
Russian paraffin oil	3,000 grams
Sodium hydroxide (saturated alcoholic solution)	a sufficiency
Vanillin	7 grams
Coumarin	7 grams
Artificial musk	3 grams
Oil of sweet orange	25 c.c.
Oil of neroli	1 c.c.
Benzyl acetate	3 c.c.
Benzylic alcohol	3 c.c.
Fat-soluble chlorophyll	a sufficiency

Dissolve 400 grams of the palmitin in 1,000 grams of the oil by the aid of heat; saponify with the solution of sodium hydroxide until alkaline to phenolphthalein. Dissolve this soap in a solution of the rest of the palmitin in the remaining 2,000 grams of oil at a temperature of 110° C. As the mass begins to cool, stir in the colour and the perfumes, previously mixed, and pour into suitable containers.

(2) Solid Brilliantine:

Castor oil	15 oz.
Spermaceti	4 oz.
Bergamot oil	2 dr.
Palma-rosa oil	1 dr.
Geranyl acetate	30 drops

Melt the spermaceti, add the castor oil, allow to cool somewhat, then incorporate the perfumes.

O. D. (187/22).—Blackening Nickel.—The following are two methods employed for blackening nickel-plated articles, such as Service revolvers: (1) Brush over with platinum-chloride solution. (2) Apply the following solution warm:

Nickel ammonium sulphate ...	34 parts
Potassium sulphocyanide ...	85 parts
Copper carbonate	56 parts
Water	3,785 parts

It is also stated that a solution of arsenic in ammonium-carbonate solution answers the purpose. Whichever method you decide to employ, it would be well first to use the solution experimentally.

G. F. S. (186/71).—Fleas on Dog's Coat.—We expect that the failure of the course of baths which the dog has had to eradicate fleas from its coat is because the bedding is not renewed frequently. As bedding, fresh hay in a box should be frequently renewed, and to keep away the fleas sulphur rubbed into the animal's coat is as good as anything.

W. C. (178/52).—Books on the Hair.—Leftwich's "Preservation of the Hair" (Wright, Bristol, 2*s.*); Startin's "Care of the Skin and Hair" (Wright, Bristol, 2*s.*).

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," August 15, 1865.

On the Commercial Use of Flowers.

Mr. Eugene Rimmel delivered a very interesting lecture on the commercial use of flowers, at the Royal Horticultural Gardens, on June 27. After alluding to the ancient method of perfuming by the combustion of aromatic woods, gums, and resins, which gave origin to the term perfume, from *per fumum*, through smoke, he described the different methods of obtaining the aroma of plants at the present time, such as distillation maceration, absorption, and expression. The growth of flowers was described as being principally carried on in the neighbourhood of Cannes and Nice, in the South of France, and as giving employment to upwards of ten thousand people—a number that will not excite surprise when the quantity of flowers, etc., required to make one pound of essential oil is taken into consideration. These quantities are given in the following list:

	Lb.
Roses (Rosa centifolia)	10,000
Orange flowers (Citrus bigaradia) ...	1,000
Orange leaves ,, ...	500
Geranium (Pelargonium odoratissimum)...	500
Lavender (Lavandula vera)	120
Spike (Lavandula spica)	80
Thyme (Thymus vulgaris)	200
Wild thyme (Thymus serpyllum)	200
Rosemary (Rosmarinus officinalis)	100
	Fruits
Bergamot (Citrus bergamia)	2,000
Lemon (Citrus medica)	1,500
Orange (Citrus aurantium)	1,800

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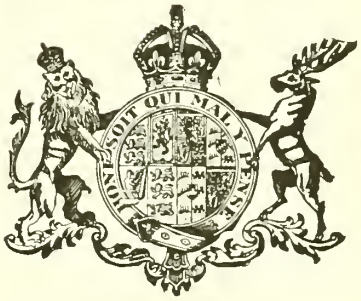
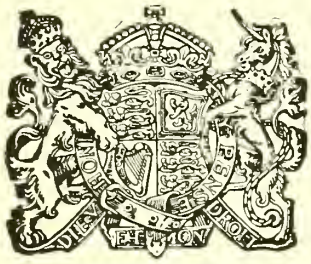


QUEEN MARY.



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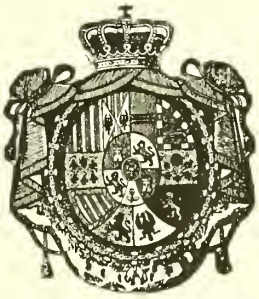

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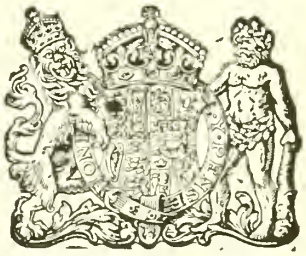
OF
SPAIN.



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Oxymel Scillæ, B.P., 5 cwt. @ 36/- cwt.; 1 cwt. @ 40/6 cwt.; *7 lbs. @ 7½d. lb.

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Paraffinum Durum, B.P., 2 cwt. @ 3½d. lb.; 1 cwt. @ 3½d. lb.; 56 lbs. @ 3¼d. lb.; 7 lbs. @ 4¼d. lb.; Molle Flav., B.P., 3½ cwt. @ 23/6 cwt.; 1 cwt. @ 33/- cwt.; 28 lbs. @ 4½d. lb.; 7 lbs. @ 5d. lb.; Alb. B.P., 3½ cwt. @ 66/- cwt.; 28 lbs. @ 9d. lb.
Paraldehyde, B.P., 7 lbs. @ 12/3 lb.; 1 lb. @ 12/9 lb.
Pepsin, B.P., 1 lb. @ 12/- lb
Phenacetin, P.B., pulv., 1 lb. @ 27/6 lb.
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Quassia Chips, 1 cwt. @ 35/- cwt.; 28 lbs. @ 4½d. lb.
Quinine Bisulph., 25 oz. @ 1/9 oz.; 10 oz. @ 1/10 oz.
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Quinine Hydrobromas, B.P., 25 oz. @ 2/4 oz.; 10 oz. @ 2/5 oz.
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Quinine Sulph., B.P., 100 oz. @ 1/7½ oz.; 25 oz. @ 1/9 oz.; 10 oz. @ 1/9½ oz.

Rad. Gentian, English Ground, 1 cwt. @ 47/6 cwt.; 7 lbs. @ 6d. lb.
Rad. Glycyrrb. Englisb Ground, 1 cwt. @ 38/6 cwt.; 7 lbs. @ 5d. lb.
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Rad. Rhei., E.I., English Ground, 1 cwt. @ 1/5 lb.; 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/9 lb.
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Resorcin, B.P., 1 lb. @ 23/- lb.

Saccharine, 7 lbs. @ 36/6 lb.; .550 or .500 1 lb. @ 37/6 lb.; .330 7 lbs. @ 34/- lb.; 1 lb. @ 35/6.
Sacchar. Ust., 1 cwt. @ 34/- cwt.; 10 lbs. @ 5d. lb.
Saffron Valentia, B.P., 7 lbs. @ 44/- lb.; 1 lb. @ 46/- lb.; 1 oz @ 3/3 oz.
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Soda Sulphocarbolas, B.P., 7 lbs. @ 2/2 lb.; 1 lb. @ 2/5 lb.
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Soda Hyposulphite, pea cryst., 1 cwt. @ 25/6 cwt.
Sodii Salicyl. Pulv., 2 lbs. @ 17/3 lb.
*Spt. Ætber Nit., P.B., 4½ lbs. @ 4/2 lb.; 1 lb. @ 4/4 lb.
* " Ammon. Aromat., P.B., 5 lbs. @ 3/4 lb.
* " Cbloroform, P.B., 5 lbs. @ 3/11 lb.
Strontiæ Bromid., 7 lbs. @ 5/- lb.; 1 lb. @ 5/6 lb.
Strychnina Cryst. B.P., 4 oz. @ 2/8 oz.; Hydrocb. and Sulphate, 2d. oz. less.
Sugar of Milk, P.B., 1 cwt. @ 85/- cwt.; 7 lbs. @ 10d. lb.
Sulphonal, P.B., 1 lb. @ 26/6 lb.
*Syr. Aurant. P.B., 7 lbs. @ 11d. lb.
* " Easton, B.P., 7 lbs. @ 1/2½ lb.
* " Ferri Iodid. P.B., 7 lbs. @ 1/6d. lb.
* " Ferri Pbosph. Co., 7 lbs. @ 7d. lb.
* " Hypophosph. Co., B.P.C., 7 lbs. @ 1/- lb.
* " Pruni Virg. B.P., 8 lbs. @ 9d. lb.
* " Rhamni, 7 lbs. @ 11½d. lb.
* " Rhei, P.B., 7 lbs. @ 9½d. lb.
* " Scillæ, P.B., 7 lbs. @ 6½d. lb.
* " Sennæ, P.B., 7 lbs. @ 10d. lb.
* " Tolut, P.B., 7 lbs. @ 9d. lb.

Thymol, 1 lb. @ 42/- lb.
Tinct. Aurantii Recens., B.P., 5 lbs. @ 3/11 lb.; bond, 8½d.; Aquos, 11d. lb.
*Tinct. Belladon, B.P., 5 lbs. @ 3/10 lb.; bond, 8½d. Aquos, 1/2 lb.
*Tinct. Benzoini Comp., P.B., 5 lbs. @ 4/2 lb.; bond, 10d.
*Tinct. Camph. Comp., P.B., 5 lbs. @ 2/11 lb.; bond, 10d. Aquos, 1/2 lb.
*Tinct. Cantharidis, P.B, 5 lbs. @ 4/3 lb.; bond, 8d. lb.
*Tinct. Capsici, B.P., 5 lbs. @ 3/1 lb.; bond, 9d. lb. Aquos, 11d. lb.
*Tinct. Card. Comp., P.B., 5 lbs. @ 2/4 lb.; bond, 8d. lb. Aquos, 1/1 lb.
*Tinct. Catechu, P.B., 5 lbs. @ 2/9 lb.; bond, 8d. lb. Aquos, 1/1 lb.
*Tinct. Cblorof. c. Morph., P.B., 1885, 5 lbs. @ 2/3 lb.; bond, 1/7½ lb.
*Tinct. Cinchon. Comp., B.P., 5 lbs. @ 3/5 lb.; bond, 1/0½ lb. Aquos, 1/3 lb.
*Tinct. Cinchon. Rub., P.B., 5 lbs. @ 3/4 lb.; bond, 10½d. lb. Aquos, 1/3 lb.
*Tinct. Digitalis, B.P., 5 lbs. @ 3/10 lb.; bond, 10d. lb. Aquos, 1/1 lb.
*Tinct. Gelsem., P.B., 5 lbs. @ 3/3 lb.; bond, 8d. lb. Aquos, 1/4 lb.
*Tinct. Gentianæ Comp., B.P. 5 lbs. @ 2/3½ lb.; bond, 10¼d. lb. Aquos, 1/1 lb.
*Tinct. Hyoscyam., B.P., 5 lbs @ 3/9 lb.; bond, 7½d. lb. Aquos, 1/8 lb.
*Tinct. Iodi., B.P., 5 lbs. @ 5/1 lb.; Fort. @ 6/7 lb.; bond, 2/2 lb.; decolor., 5 lbs. @ 5/5 lb.; bond, 1/11.
*Tinct. Lavandulæ Comp., B.P., 5 lbs. @ 4/5 lb.; bond, 9d. lb. Aquos, 1/1 lb.
*Tinct. Myrrhæ, B.P., 5 lbs. @ 4/2 lb.; bond, 9¼d. lb.
*Tinct. Nucis Vom., B.P., 5 lbs. @ 3/2 lb.; bond, 9d. lb. Aquos, 1/3 lb.
*Tinct. Op'i, B.P., 5 lbs. @ 5/3 lb.; bond, 3/7 lb.
*Tinct. Opii Aquos, 5 lbs. @ 3/1 lb.
*Tinct. Quininæ Amm., B.P., 5 lbs. @ 3/1 lb.; bond, 1/0½d. lb.
*Tinct. Rhei Co., B.P., 5 lbs. @ 2/3 lb.; bond, 10½d. lb. Aquos, 1/1 lb.
*Tinct. Scillæ, B.P., 5 lbs. @ 2/9 lb.; bond, 9½d. Aquos, 11d. lb.
*Tinct. Senegæ, P.B., 5 lbs. @ 3/6 lb.; bond, 1/5½ lb. Aquos, 1/6½ lb.
*Tinct. Strophanth., P.B., 5 lbs. @ 4/1 lb.; bond, 10d. lb.
*Tinct. Valerianæ, 5 lbs. @ 3/3 lb.; bond, 8d. lb. Aquos, 1/2 lb.
*Tinct. Valerianæ Ammon., P.B., 5 lbs. @ 3/6 lb.; bond, 9½d. lb. Aquos, 1/4 lb.
*Tinct. Zingib., P.B., 5 lbs. @ 4/4 lb.; bond, 11½d. lb.
*Tinct. Zingib. Fortior., 5 lbs. @ 4/7 lb.; bond, 1/- lb.
Treacle (Black), casks about 5½ gross @ 42/- per cask; 24 lbs. @ 2½d. lb.
Turpentine (Best American), 1 gal. tins @ 4/6 eacb; Venice, Genuine, 9 lbs. @ 2/- lb.

Ung. Acid. Boric, P.B., 28 lbs. @ 8d. lb.; Flav., 28 lbs. @ 5½d. lb.
" Acid. Carbol., B.P., 28 lbs. @ 1/- lb.; 7 lbs. @ 1/1 lb.; 1 lb. @ 1/5 lb.
" Gallæ, P.B., 7 lbs. @ 1/- lb.; 1 lb. @ 1/2 lb.; c. Opio, 7 lbs. @ 2/10 lb.
" Hydrargyri, B.P., 28 lbs. @ 2/7½ lb.; 7 lbs. @ 2/8½ lb.
" Hydrarg. Ammon., B.P., 28 lbs. @ 1/4 lb.; 7 lbs. @ 1/7 lb.
" Hyd. Nit. Dil., 7 lbs. @ 1/- lb.
" Paraff. Alb., P.B., 28 lbs. @ 8½d. lb.; 7 lbs. @ 9½d. lb.; 1 lb. @ 11½d. lb.; Flav. 28 lbs. @ 6½d. lb.; 7 lbs. @ 8d. lb.
" Resinæ, P.B., 28 lbs. @ 1/- lb.; 7 lbs. @ 1/1 lb.
" Sulphuris, B.P., 28 lbs. @ 9d. lb.; 7 lbs. @ 10d. lb.
" Zinci Oxid. Benz., B.P., 28 lbs. @ 9d. lb.

Wax, Japan, 2 cwt. @ 70/- cwt.; 7 lbs. @ 9d. lb.

Zinci Oleat. Powder, B.P.C., 7 lbs. @ 2/- lb.
Zinci Oxid., 1 cwt. @ 82/6 cwt.; 28 lbs. @ 9½d. lb.; 7 lbs. @ 10d. lb.
" Sulph., pure, 1 cwt. @ 52/- cwt.; 28 lbs. @ 7½d. lb.
" Sulphocarbolas, B.P., 7 lbs. @ 2/6 lb.; 1 lb. @ 2/8 lb.

*Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

NOTE.—Only terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers. Goods carriage forward; all packages free; Export cases extra.

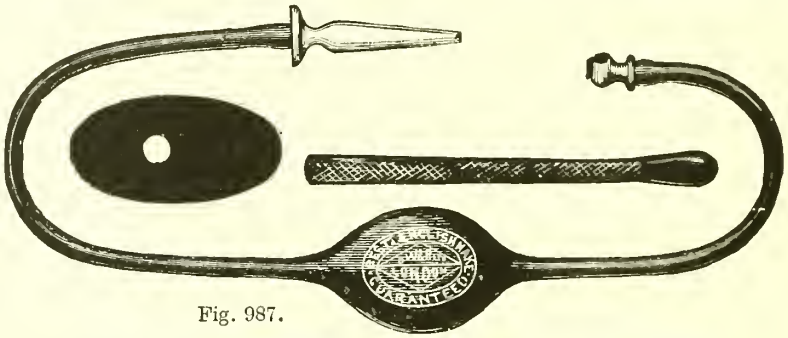
ALLIANCE DRUG & CHEMICAL CO., LONDON.

Offices: 34 LEADENHALL STREET.

KINDLY DETACH THIS SHEET AND PLACE IT IN YOUR BUYING BOOK.

SEAMLESS ENEMAS.

BRITISH MAKE.



BRITISH MAKE.

Fig. 987.

GUARANTEED FOR 2 YEARS.

		s.	d.
Fig. 987.—The **"B.E.M."** (Best English Make), with bone rectal pipe, etc., complete in superior card box, per doz.		17	0
,, ,, in leatherette dome-top case ,,	,,	19	0
,, ,, super quality ,,	,,	24	0
,, extra large and stout, the finest article made ...	,,	32	0
Fig. 988.—The **"EMPIRE,"** complete in card box	,,	18	0

5% discount allowed for prompt cash off above prices. Carriage paid on orders of **£2** and upwards to any town in the United Kingdom.

We are the right House for BRITISH-MADE GOODS—Bandages, Belts, Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Trusses, Splints, Water and Air Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber and Vulcanite Goods.

ILLUSTRATED PRICE LIST POST FREE. OUR GOODS ARE RIGHT. MONEY BACK IF NOT SATISFIED.

BURGE, WARREN & RIDGLEY, LTD.

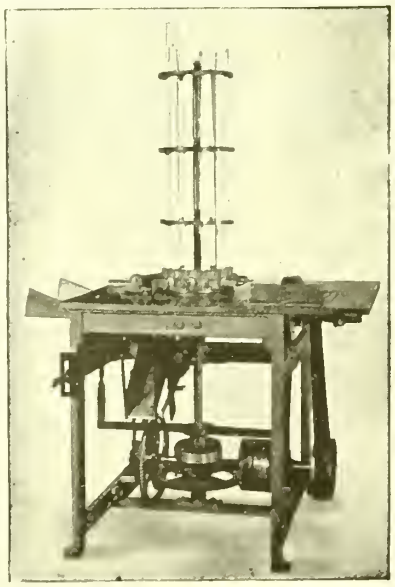
91 & 92 GREAT SAFFRON HILL, LONDON, E.C.

SURGICAL BANDAGE MACHINERY

Complete Plant for Making Bandages.

CLOTH ROLLING & MEASURING MACHINE
BANDAGE PAPERING MACHINE.
BANDAGE CUTTING MACHINE.

BANDAGE CUTTING MACHINE

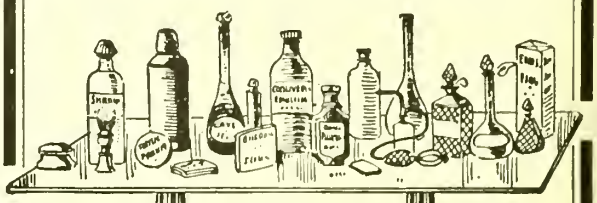


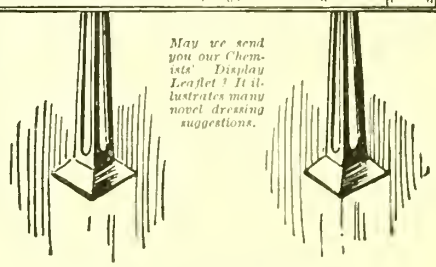
CUTS — 66 — BANDAGES PER MINUTE

Prices and Particulars on application to Patentees & Manufacturers

THOMSON-KNOX COMPANY 8-12 Maxwell Street, GLASGOW.

An attractive Window
is the key to more business





May we send you our Chemists' Display Leaflet? It illustrates many novel dressing suggestions.

SOLID OAK PEDESTAL, 610.

6"	9"	12"	15"	18"	24"	30"
12/-	15/-	18/-	22/-	24/-	34/-	38/- doz.

Saml. HASKINS & Bros., Ltd.
20/34 OLD STREET, LONDON, E.C.

DROPPING BOTTLES

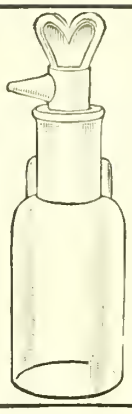
1 to 4 oz., Amber or White Flint, to order.

STOCK OF A FEW AMBER EXPECTED FROM WHARF IN A FEW DAYS

WE ARE NOW FULL UP FOR 1 TO 4 OZ. GLASS SYRINGES.

Boiling Flasks, Beakers, Test Tubes, 100 cc., Burettes with Taps we can still do from stock.

DOUCHE LININGS, 2 and 4 pint, in stock.



JULES LANG & SON, Charlton Works, Charlton Place, ISLINGTON, LONDON, N.

Telephone: North 1344 (2 lines). Telegrams: "Assorted London."

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PLEASE NOTE.
NO EXTRA STOCK.
NO RESPONSIBILITY.
NO TROUBLE.
HANDSOME PROFIT.

Why not add to your income without trouble and without extra stock? There must be many among your customers who, known to you, wear an **ARTIFICIAL LIMB** or other **APPLIANCE.** Advise them to come to us. We are makers of the highest class of Limbs and Appliances, and no time or effort is spared to make each case a success. Simply send us a card to say that you have mentioned our name to Mr. or Mrs. ——, of ——, or send their name and address, and we will forward them a catalogue. In either case, should business result, we credit you with a substantial commission from 10 to 25% according to the nature of instrument supplied, and a cheque is sent on the 1st of the month following. We should be pleased to supply you with catalogues, in English, French, or German, for distribution, and give any information you may require.

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A. MILLAR & CO., LTD., DUBLIN

PURE ORANGE WINE

VINUM AURANTII, B.P. Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.

London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.

GOOD! IT'S MASON'S

The Drink for the Masses

Millions of glasses used daily by workers all over the Empire

Please allow us to Sample and Quote—

Citrate Magnesia
Health Salt
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Sulph. & Sarsap. Salt
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NEWBALL & MASON
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A VOTRE SANTÉ!

IT CANNOT BE TOO WIDELY KNOWN THAT THE **ONLY FILTER** AUTHORISED BY **M. PASTEUR** TO BEAR HIS NAME IS

THE PASTEUR-CHAMBERLAND FILTER.

MEDICAL PRESS COMMENTS

The only filter giving complete security.
The acknowledged Standard Filter.
A real preventive of water-borne disease.
The only filter the Profession can recommend.

The Filter is made in a variety of patterns for attachment to the main, for table use, and for travellers. Write for List B.

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THE BRITISH PASTEUR CHAMBERLAND FILTER CO.
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In succession to Defries Ld. of Houndsditch & Deptford.

BRUNNER, MOND & CO.'S

Alkali Products.

BM&Co TRADE MARK.

Crescent Brand.

These products are made by the Ammonia Process, and are distinguished from others by their great purity.

Bicarbonate of Soda.

This Bicarbonate answers all the requirements of the British Pharmacopœia. It is a pure, refined, and recrystallised salt, particularly free from metals or any base other than soda. This sodium bicarbonate is specially suitable for the preparation of granular effervescent preparations and salines, seidlitz powders and baking powders, and is well adapted for other medicinal and domestic purposes. It is the purest and cheapest sodium bicarbonate made.

Concentrated Crystal Soda.

This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

Pure Alkali.
58 Degrees.

A dry, white powder: dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent. carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

Pure Soda Crystals

Caustic Soda.

Manufactured from pure Carbonate of Soda, and supplied of all degrees of strength.

Bleaching Powder.

Carbonate of Ammonia

(Lump and Powder).

Retailers can obtain these products through any Wholesale house by specifying Brunner, Mond & Co.'s "Crescent" Brand. The Manufacturers supply wholesale quantities only, and will quote on application to

BRUNNER, MOND & CO., LIMITED, NORTHWICH, CHESHIRE.

THE WIGGLESWORTH WAY.

The Catch of the Hot Weather Season.

TERRIER FOOT POWDER

AND

FOOT EASE POWDER.

A CHEMIST WRITES:

Please send per return 5 gross Terrier Foot Powder. Since placing your special show-box in my window

I CANNOT KEEP STOCK

OUR SPECIAL SALESMEN OUTERS enable you to make a most effective selling display. ORDER NOW! and make money while the Sun shines.

PRICE

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PER GROSS

SELLING PRICE 1½d. PER PACKET.

WIGGLESWORTHS ROSEHILL WORKS. BOLTON

TO WHOLESALE & EXPORT TRADES. ESTABLISHED 1846.

Extracts
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RANSOMS

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WILLIAM RANSOM & SON, LTD.,

MANUFACTURING PHARMACEUTICAL CHEMISTS,
Distillers of Essential Oils and Cultivators of Medicinal Plants,

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FENNINGS' CHILDREN'S POWDERS.

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A guarantee Cadbury's Cocoa Essence (unflavoured)
is absolutely pure & prepared only from the finest selected Cocoa

Prices:
8 oz., 10/- dozen.
14 „ 18/- „

Safe Purchases
for Early Autumn.

CONSIDERING the recent great rise in the price of Cod Liver Oil, our prices for Cod Liver Oil Emulsion are decidedly low, and the prospect of further advances suggests that *now* is a good time to buy.

We pack a range of 14 high-class toilet articles in very attractive tubes. Cheap enough to be sold at a very modest price, yet good enough to make the customer "come again," these tube goods are a line worth more than passing attention. Here are some of the leading varieties: Cold Cream, Zinc Ointment, Nit Ointment, Tooth Pastes, Indian Cerate and Chillie Paste.

	Small size in outers of 3 doz.	Medium in outers of 1 doz.	Large in outers of 1 doz.
Per doz. ...	8d.	1/7	2/2
Per gross ...	7/6	18/-	24/-

Vanishing Cream (in bulk).

This is a Cream practically equal in appearance, odour, and effect to the proprietary Creams sold at 1/- or 1/3 per pot.

If neatly packed and discreetly pushed, it should sell well at a very handsome profit. In 1 lb. and 2 lb. free packages at 1/- per lb.

GOODALL, BACKHOUSE & CO., LEEDS.

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Extracts
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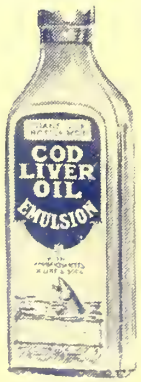

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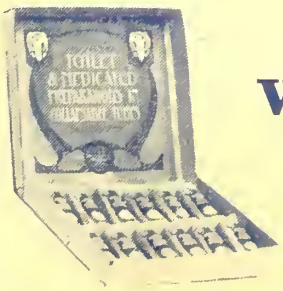

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